

GenCore version 4.5
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OM nucleic - nucleic search, using sw model
Run on: April 19, 2002, 21:57:21 ; Search time 2544.74 Seconds
(without alignments)
11584.861 Million cell updates/sec

Title: US-09-925-139-3
Perfect score: 1787
Sequence: 1 gtagaatctctggggccagga.....ggcattaaagtgtgtatcc 1787

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 1472140 seqs, 8248589755 residues

Word size : 0
Total number of hits satisfying chosen parameters: 541028

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : GenEmbl.*

- 1: gb.ba.*
- 2: gb.htg.*
- 3: gb.in.*
- 4: gb.om.*
- 5: gb.ov.*
- 6: gb.pat.*
- 7: gb.ph.*
- 8: gb.pl.*
- 9: gb.pr.*
- 10: gb.ro.*
- 11: gb.sts.*
- 12: gb.sy.*
- 13: gb.un.*
- 14: gb.vi.*
- 15: em.ba.*
- 16: em.fun.*
- 17: em.hum.*
- 18: em.in.*
- 19: em.om.*
- 20: em.or.*
- 21: em.ov.*
- 22: em.pat.*
- 23: em.ph.*
- 24: em.pl.*
- 25: em.ro.*
- 26: em.sts.*
- 27: em.sy.*
- 28: em.un.*
- 29: em.vi.*
- 30: em.htgo_hum.*
- 31: em.htgo_inv.*
- 32: em.htgo_rod.*
- 33: em.htg_hum.*
- 34: em.htg_inv.*
- 35: em.htg_rod.*
- 36: em.htg_other.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

8

Result No.	Score	Query Match	Length	DB	ID	Description
1	46	2.6	46	6	AR032477	AR032477 Sequence
2	46	2.6	46	6	I29217	I29217 Sequence
3	46	2.6	46	6	I90891	I90891 Sequence
4	21	1.2	24	6	AX020418	AX020418 Sequence
5	16	0.9	20	6	AR042917	AR042917 Sequence
6	16	0.9	20	6	AR073289	AR073289 Sequence
7	16	0.9	36	6	AX112428	AX112428 Sequence
8	15	0.8	22	4	DOG2155P01	L78441 Canis fami
9	15	0.8	22	6	ARI30748	ARI30748 Sequence
10	15	0.8	25	6	EO4451	EO4451 DNA encodin
11	15	0.8	27	6	ARI09648	ARI09648 Sequence
12	15	0.8	32	6	AX112429	AX112429 Sequence
13	15	0.8	41	6	A48824	A48824 Sequence
14	14	0.8	20	6	AX167117	AX167117 Sequence
15	14	0.8	21	6	AR069484	AR069484 Sequence
16	14	0.8	22	6	AX146446	AX146446 Sequence
17	14	0.8	22	6	AX146447	AX146447 Sequence
18	14	0.8	23	6	A84872	A84872 Sequence
19	14	0.8	23	6	AX077382	AX077382 Sequence
20	14	0.8	23	6	AX148006	AX148006 Sequence
21	14	0.8	25	6	ARI30317	ARI30317 Sequence
22	14	0.8	25	6	ARI30321	ARI30321 Sequence
23	14	0.8	26	6	AR090227	AR090227 Sequence
24	14	0.8	26	6	AR091212	AR091212 Sequence
25	14	0.8	26	6	AX037841	AX037841 Sequence
26	14	0.8	27	6	A91913	A91913 Sequence
27	14	0.8	27	6	AR026695	AR026695 Sequence
28	14	0.8	27	6	AR026699	AR026699 Sequence
29	14	0.8	27	6	AR026713	AR026713 Sequence
30	14	0.8	27	6	AR026714	AR026714 Sequence
31	14	0.8	27	6	AR029305	AR029305 Sequence
32	14	0.8	27	6	AR049121	AR049121 Sequence
33	14	0.8	27	6	AR049125	AR049125 Sequence
34	14	0.8	27	6	AR049139	AR049139 Sequence
35	14	0.8	27	6	AR049140	AR049140 Sequence
36	14	0.8	27	6	AR065379	AR065379 Sequence
37	14	0.8	27	6	AR065383	AR065383 Sequence
38	14	0.8	27	6	AR065397	AR065397 Sequence
39	14	0.8	27	6	AR065398	AR065398 Sequence
40	14	0.8	28	6	I22030	I22030 Sequence
41	14	0.8	31	6	AX167972	AX167972 Sequence
42	14	0.8	32	6	AX107235	AX107235 Sequence
43	14	0.8	32	6	AX107358	AX107358 Sequence
44	14	0.8	33	6	AR014162	AR014162 Sequence
45	14	0.8	33	6	AX067826	AX067826 Sequence

ALIGNMENTS

RESULT 1	AR032477	AR032477	46 bp	DNA	PAT	29-SEP-1999
LOCUS	Sequence	89	from patent	US 5869241.		
DEFINITION	AR032477					
ACCESSION	AR032477.1		GI:5948082			
VERSION						
KEYWORDS	Unknown.					
SOURCE	Unknown.					
ORGANISM	Unclassified.					
REFERENCE	1 (bases 1 to 46)					
AUTHORS	Edwards,C.A., Cantor,C.R., Andrews,B.M., Turin,L.M. and Fry,K.E.					
TITLE	Method of determining DNA sequence preference of a DNA-binding molecule					
JOURNAL	Patent: US 5869241-A 89 09-FEB-1999;					
FEATURES	Location/Qualifiers					
source	1..46					
BASE COUNT	9 a 11 c 19 g					
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	7 t					

LOCUS AX020418 24 bp DNA PAT 07-SEP-2000
DEFINITION Sequence 3 from Patent WO935286.
ACCESSION AX020418
VERSION AX020418.1 GI:1004134
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 24)
AUTHORS Kastelein, J.J. and Kuivenhoven, J.A.
TITLE Assay for predicting the angiographic response to lipid-lowering
JOURNAL therapy in patients
PATENT: WO 935286-A 3 15-JUL-1999;
KASTELEIN JOHANNES JACOBUS PIE (CA); AZ UNIV AMSTERDAM (NL);
KUIVENHOVEN JAN ALBERT (US)
FEATURES
source Location/Qualifiers
1..24
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="primer"
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ORIGIN
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Best Local Similarity 100.0%; Pred. No. 9.3;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 343 agtcaagtatgggtgcacaa 363
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Db 24 AGTCAAGTATGGGTGCACAA 4
RESULT 5
AR042917
LOCUS AR042917 20 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 3 from patent US 5814308.
ACCESSION AR042917
VERSION AR042917.1 GI:5963925
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Zhang, K.
TITLE Methods for the treatment of gastrointestinal tract disorders
JOURNAL Patent: US 5814308-A 3 29-SEP-1998;
FEATURES
source Location/Qualifiers
1..20
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BASE COUNT 6 a 4 c 5 g 5 t
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Query Match 0.9%; Score 16; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4e+03;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 2 TCCTGAAGGACAGAT 17
RESULT 6
AR073289
LOCUS AR073289 20 bp DNA PAT 28-AUG-2000
DEFINITION Sequence 3 from patent US 5948892.
ACCESSION AR073289
VERSION AR073289.1 GI:10000052
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 20)
AUTHORS Zhang, K.
TITLE Methods for the treatment of gastrointestinal tract disorders
JOURNAL Patent: US 5814308-A 3 29-SEP-1998;
FEATURES
source Location/Qualifiers
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RESULT 2
I29217
LOCUS I29217 46 bp DNA PAT 06-FEB-1997
DEFINITION Sequence 89 from patent US 5578444.
ACCESSION I29217
VERSION I29217.1 GI:1820008
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 46)
AUTHORS Edwards, C.A., Cantor, C.R., Andrews, B.M., Turin, L.M. and Fry, K.E.
TITLE Sequence-directed DNA-binding molecules compositions and methods
JOURNAL Patent: US 5578444-A 89 26-NOV-1996;
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RESULT 3
I90891
LOCUS I90891 46 bp DNA PAT 01-DEC-1998
DEFINITION Sequence 89 from patent US 5726014.
ACCESSION I90891
VERSION I90891.1 GI:3935361
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 46)
AUTHORS Edwards, C.A., Cantor, C.R., Andrews, B.M. and Turin, L.M.
TITLE Screening assay for the detection of DNA-binding molecules
JOURNAL Patent: US 5726014-A 89 10-MAR-1998;
FEATURES
source Location/Qualifiers
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/organism="unknown"
BASE COUNT 9 a 11 c 19 g 7 t
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Query Match 2.6%; Score 46; DB 6; Length 46;
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Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 4
AX020418/c

REFERENCE 1 (bases 1 to 20)
 AUTHORS Wahl, R.C.
 TITLE Analogs of macrophage stimulating protein
 JOURNAL Patent: US 5948892-A 3 07-SEP-1999;
 FEATURES Location/Qualifiers

source 1..20
 /organism="unknown"
 BASE COUNT 6 a 4 c 5 g 5 t
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 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 714 tctgaaggagacagat 729
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 Db 2 TCTGAGGACAGAT 17

RESULT 7

AX112428 36 bp DNA PAT 01-MAY-2001
 LOCUS
 DEFINITION Sequence 76 from Patent WO0127857.
 ACCESSION AX112428
 VERSION AX112428.1 GI:13939187

KEYWORDS synthetic construct.
 SOURCE synthetic construct.
 ORGANISM artificial sequence.

REFERENCE 1 (bases 1 to 36)
 AUTHORS Braun, A., Koester, H., van den Boom, D., Ping, Y., Rodi, C., He, L.,
 Chiu, N. and Jurinke, C.
 TITLE Methods for generating databases and databases for identifying
 polymorphic genetic markers
 JOURNAL Patent: WO 0127857-A 76 19-APR-2001;
 Sequenom, Inc. (US)

FEATURES Location/Qualifiers
 source 1..36
 /organism="synthetic construct"
 /db_xref="taxon:32630"
 /note="Oligonucleotide primer"
 BASE COUNT 8 a 10 c 11 g 7 t
 ORIGIN

Query Match 0.9%; Score 16; DB 6; Length 36;
 Best Local Similarity 100.0%; Pred. No. 6.1e+03;
 Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1377 agagcagctccgagtc 1392
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 Db 21 AGAGCAGCTCCGAGTC 36

RESULT 8

DOG2155P01 22 bp DNA MAM 29-NOV-1996
 LOCUS
 DEFINITION Canis familiaris (clone 2155F) DNA, STS primer.
 ACCESSION L78641
 VERSION L78641.1 GI:1372930
 KEYWORDS genetic marker; microsatellite; tetranucleotide repeat.
 SOURCE dog.

ORGANISM Canis familiaris
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 REFERENCE 1 (bases 1 to 22)
 AUTHORS Francisco, L.V., Langston, A.A., Mellersh, C.S., Neal, C.L. and
 Ostrander, E.A.

TITLE A class of highly polymorphic tetranucleotide repeats for canine
 genetic mapping
 JOURNAL Mamm. Genome 7 (5), 359-362 (1996)
 MEDLINE 96269603

FEATURES Location/Qualifiers
 source 1..22
 /organism="Canis familiaris"
 /db_xref="taxon:9615"
 primer_bind complement(1..22)
 /note="2155F"
 /evidence=experimental

BASE COUNT 6 a 1 c 9 g 6 t
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 Best Local Similarity 100.0%; Pred. No. 2.3e+04;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 803 gatggagacattggg 817
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 Db 8 GATGGAGACATTGGG 22

RESULT 9

AR130748/c 22 bp DNA PAT 16-MAY-2001
 LOCUS
 DEFINITION Sequence 4 from patent US 6190868.
 ACCESSION AR130748

VERSION AR130748.1 GI:14119073
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 22)
 AUTHORS Rothberg, J.M., Deem, M.W. and Simpson, J.W.
 TITLE Method for identifying a nucleic acid sequence
 JOURNAL Patent: US 6190868-A 4 20-FEB-2001;
 Location/Qualifiers

FEATURES Location/Qualifiers
 source 1..22
 /organism="unknown"
 BASE COUNT 6 a 4 c 6 g 6 t
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Query Match 0.8%; Score 15; DB 6; Length 22;
 Best Local Similarity 100.0%; Pred. No. 2.3e+04;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1436 cctgaggtcatgtct 1450
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 Db 18 CCTGAGGTCATGTCT 4

RESULT 10

E04451 25 bp DNA PAT 29-SEP-1997
 LOCUS
 DEFINITION DNA encoding primer for detection of mutation at ornithine
 transcarbamylase(OTC) gene.

ACCESSION E04451
 VERSION E04451.1 GI:2172652
 KEYWORDS JP 1993068600-A/11.
 SOURCE synthetic construct.
 ORGANISM artificial sequence.

REFERENCE 1 (bases 1 to 25)
 AUTHORS Matsuda, I., Shimada, K. and Matsuura, T.
 TITLE OLIGONUCLEOTIDE AND DETECTION OF ORNITHINE TRANSCARBAMYLASE-MUTATED
 GENE WITH THE SAME

JOURNAL Patent: JP 1993068600-A 11 23-MAR-1993;
 MATSUDA ICHIRO, SHIMADA KAZUNORI, MATSUURA TOSHINOBU
 COMMENT OS Artificial gene
 OC Artificial sequence; Genes.
 PN JP 1993068600-A/11
 PD 23-MAR-1993
 PF 24-MAY-1991 JP 1991149718

PI MATSUDA ICHIRO, SHIMADA KAZUNORI, MATSUURA TOSHINOBU PC
 C12Q1/68, A61B10/00, A61B10/00, C07H21/04, C12N15/10, PC
 C12N15/54//C12N9/10;

CC strandedness: Single;
 CC topology: Linear;
 CC hypothetical: No;
 CC anti-sense: No;
 CC Location/Qualifiers

FEATURES
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 /organism="synthetic construct"
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BASE COUNT
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Query Match 0.8%; Score 15; DB 6; Length 25;
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 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 687 attcatctccttca 701
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 Db 4 ATTTCATCTCTTCA 18

RESULT 11
 ARI09648 27 bp DNA PAT 14-FEB-2001
 LOCUS
 DEFINITION Sequence 72 from patent US 6114139.
 ACCESSION ARI09648
 VERSION ARI09648.1 GI:12825924
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 27)
 AUTHORS Hinum, S., Hosoya, M., Fujii, R., Ohtaki, T., Fukusumi, S. and Ohgi, K.
 TITLE G-protein coupled receptor protein and a DNA encoding the receptor
 JOURNAL Patent: US 6114139-A 72 05-SEP-2000;
 FEATURES
 Location/Qualifiers
 1..27
 /organism="unknown"
 3 a 5 c 13 g 6 t

BASE COUNT
 ORIGIN

Query Match 0.8%; Score 15; DB 6; Length 27;
 Best Local Similarity 100.0%; Pred. No. 2.3e+04;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 162 tgcgtggcgaatgcc 176
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 Db 9 TGCTGGCAATGCC 23

RESULT 12
 AX112429/c 32 bp DNA PAT 01-MAY-2001
 LOCUS
 DEFINITION Sequence 77 from Patent WO0127857.
 ACCESSION AX112429
 VERSION AX112429.1 GI:13939188
 KEYWORDS
 SOURCE synthetic construct.
 ORGANISM artificial sequence.

REFERENCE 1 (bases 1 to 32)
 AUTHORS Braun, A., Koester, H., van den Boom, D., Ping, Y., Rodi, C., He, L., Chiu, N. and Jurinke, C.
 TITLE Methods for generating databases and databases for identifying polymorphic genetic markers
 JOURNAL Patent: WO 0127857-A 77 19-APR-2001;
 Sequenom, Inc. (US)

FEATURES
 source
 1..32
 Location/Qualifiers

/organism="synthetic construct"
 /db_xref="taxon:32630"
 /note="Oligonucleotide primer"
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Query Match 0.8%; Score 15; DB 6; Length 32;
 Best Local Similarity 100.0%; Pred. No. 2.3e+04;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1396 ccagagcttcttca 1410
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 Db 32 CCAGAGCTTCTTCA 18

RESULT 13
 A48824 41 bp DNA PAT 07-MAR-1997
 LOCUS
 DEFINITION Sequence 16 from Patent EP0704527.
 ACCESSION A48824
 VERSION A48824.1 GI:2302486
 KEYWORDS
 SOURCE unidentified.
 ORGANISM unidentified.

REFERENCE 1 (bases 1 to 41)
 AUTHORS Mestric, S., Punt, P. J., Valinger, R., Van and Den, H. C.
 TITLE DNA sequences encoding biosynthetic insulin precursors and process for preparation of insulin
 JOURNAL Patent: EP 0704527-A 16 03-APR-1996;
 COMMENT PLIVA PHARM & CHEM WORKS (YU)
 Other publication CN 1126761 960717
 Other publication CA 2155451 960206
 Other publication SK 97195 960207
 Other publication SI 9500250 960229
 Other publication BG 99844 960229
 Other publication CZ 9501999 960214
 Other publication PL 309882 960219.
 FEATURES
 Location/Qualifiers
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 /db_xref="taxon:32644"
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BASE COUNT
 ORIGIN

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 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 396 gccagtgagctgg 410
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 Db 17 GCCAGTGGAGCTGG 31

RESULT 14
 AX167117/c 20 bp DNA PAT 03-JUL-2001
 LOCUS
 DEFINITION Sequence 4 from Patent WO0144455.
 ACCESSION AX167117
 VERSION AX167117.1 GI:14596605
 KEYWORDS
 SOURCE human.

ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 20)
 AUTHORS Berli, R.
 TITLE Antisense oligonucleotides
 JOURNAL Patent: WO 0144455-A 4 21-JUN-2001;
 Astrazeneca AB (SE)
 FEATURES
 Location/Qualifiers


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source 1..20
/organism="Homo sapiens"
/db_xref="taxon:9606"
/note="Antisense oligonucleotide"
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154 cctggccctgctgg 167
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Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 154 cctggccctgctgg 167
Db 20 CCTGGCCCTGCTGG 7

RESULT 15
LOCUS AR069484 21 bp DNA PAT 18-FEB-2000
DEFINITION Sequence 21 from patent US 5891666.
ACCESSION AR069484
VERSION AR069484.1 GI:7220372
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 21)
AUTHORS Matsuyama,T. and Grossman,A.
TITLE Genes encoding LSRF polypeptides
JOURNAL Patent: US 5891666-A 21 06-APR-1999;
FEATURES
source 1..21
/organism="unknown"
BASE COUNT 3 a 9 c 5 g 4 t
ORIGIN
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1381 cagctccgagtcaca 1394
7 CAGCTCCGAGTCACA 20

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Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1381 cagctccgagtcaca 1394
Db 7 CAGCTCCGAGTCACA 20

RESULT 16
LOCUS AX146446 22 bp DNA PAT 31-MAY-2001
DEFINITION Sequence 27 from Patent WO0134647.
ACCESSION AX146446
VERSION AX146446.1 GI:14284864
KEYWORDS
SOURCE Cow.
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovidae; Bovinae; Bos.
REFERENCE 1 (bases 1 to 22)
AUTHORS Bell,M.P., Neff,T.B., Polarek,J.W. and Seeley,T.W.
TITLE Animal collagens and gelatins
JOURNAL Patent: WO 0134647-A 27 17-MAY-2001;
FIBROGEN, INC. (US)
FEATURES
source 1..22
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1548 tgctgcagatggac 1561
19 TGCTGCAGATGGAC 6

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Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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LOCUS AX146447/c 22 bp DNA PAT 31-MAY-2001
DEFINITION Sequence 28 from Patent WO0134647.
ACCESSION AX146447
VERSION AX146447.1 GI:14284865
KEYWORDS
SOURCE Cow.
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovidae; Bovinae; Bos.
REFERENCE 1 (bases 1 to 22)
AUTHORS Bell,M.P., Neff,T.B., Polarek,J.W. and Seeley,T.W.
TITLE Animal collagens and gelatins
JOURNAL Patent: WO 0134647-A 28 17-MAY-2001;
FIBROGEN, INC. (US)
FEATURES
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21 CCTGGCCCTGCTGG 8

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Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 154 cctggccctgctgg 167
Db 21 CCTGGCCCTGCTGG 8

RESULT 18
LOCUS A84872/c 23 bp DNA PAT 21-JAN-2000
DEFINITION Sequence 21 from Patent WO9844106.
ACCESSION A84872
VERSION A84872.1 GI:6733720
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1 (bases 1 to 23)
AUTHORS Waeber,G. and Bonny,C.
TITLE TRANSCRIPTION FACTOR ISLET-BRAIN 1 (IB1)
JOURNAL Patent: WO 9844106-A 21 08-OCT-1998;
WAEBER GERARD (CH); NICOD PASCAL (CH)
FEATURES
source 1..23
/organism="unidentified"
/db_xref="taxon:32644"
BASE COUNT 5 a 8 c 4 g 6 t
ORIGIN
|||||
1548 tgctgcagatggac 1561
19 TGCTGCAGATGGAC 6

Query Match 0.8%; Score 14; DB 6; Length 23;
Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1548 tgctgcagatggac 1561
Db 19 TGCTGCAGATGGAC 6
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RESULT 19
AX077382/c
LOCUS AX077382 23 bp DNA PAT 22-FEB-2001
DEFINITION Sequence 34 from Patent.WO0105952.
ACCESSION AX077382
VERSION AX077382.1 GI:13121937
KEYWORDS synthetic construct.
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 23)
AUTHORS van der Bleezen,E.A. and Jones,J.D.
TITLE Rela/spot homologues from plant
JOURNAL Patent: WO 0105952-A 34 25-JAN-2001;
Plant Bioscience Limited (GB)
FEATURES
source Location/Qualifiers
1..23
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Primer"
BASE COUNT 5 a 6 c 8 g 4 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 23;
Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 855 cctcctacctggag 868
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Db 14 CCTCCTACCTGGAG 1

RESULT 20
AX148006/c
LOCUS AX148006 23 bp DNA PAT 08-JUN-2001
DEFINITION Sequence 6 from Patent WO0134848.
ACCESSION AX148006
VERSION AX148006.1 GI:14346977
KEYWORDS synthetic construct.
SOURCE synthetic construct.
ORGANISM artificial sequence.
REFERENCE 1 (bases 1 to 23)
AUTHORS Brown,B.A., Kilpatrick,D.R., Pallansch,M.A. and Oberste,M.S.
TITLE Serotype-specific identification of enterovirus 71 by rt-pcr
JOURNAL Patent: WO 0134848-A 6 17-MAY-2001;
Secretary of the Department of Health and Human Services (US)
FEATURES
source Location/Qualifiers
1..23
/organism="synthetic construct"
/db_xref="taxon:32630"
BASE COUNT 4 a 3 c 10 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 23;
Best Local Similarity 100.0%; Pred. No. 8.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 227 accaagctgcct 240
|||||
Db 20 ACCAAGCCTGCCT 7

RESULT 21
ARI30317/c
LOCUS ARI30317 25 bp DNA PAT 16-MAY-2001
DEFINITION Sequence 27 from patent US 6187913.
ACCESSION ARI30317
VERSION ARI30317.1 GI:14118214
KEYWORDS

SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 25)
AUTHORS Blumenfeld,M. and Merenkova,I.
TITLE Covalently crosslinked oligonucleotides, preparation method and synthon which is of use in the method
JOURNAL Patent: US 6187913-A 27 13-FEB-2001;
FEATURES Location/Qualifiers
source 1..25
BASE COUNT 6 a 7 c 7 g 5 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1527 tcactcgagatggc 1540
|||||
Db 14 TCACTCGAGATGGC 1

RESULT 22
ARI30321/c
LOCUS ARI30321 25 bp DNA PAT 16-MAY-2001
DEFINITION Sequence 31 from patent US 6187913.
ACCESSION ARI30321
VERSION ARI30321.1 GI:14118218
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 25)
AUTHORS Blumenfeld,M. and Merenkova,I.
TITLE Covalently crosslinked oligonucleotides, preparation method and synthon which is of use in the method
JOURNAL Patent: US 6187913-A 31 13-FEB-2001;
FEATURES Location/Qualifiers
source 1..25
BASE COUNT 6 a 7 c 7 g 5 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 25;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1527 tcactcgagatggc 1540
|||||
Db 14 TCACTCGAGATGGC 1

RESULT 23
AR090227/c
LOCUS AR090227 26 bp DNA PAT 07-SEP-2000
DEFINITION Sequence 347 from patent US 5994076.
ACCESSION AR090227
VERSION AR090227.1 GI:10016982
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 26)
AUTHORS Chenchik,A., Jokhadze,G. and Bibilashvili,I.R.
TITLE Methods of assaying differential expression
JOURNAL Patent: US 5994076-A 347 30-NOV-1999;
FEATURES Location/Qualifiers
source 1..26
BASE COUNT 5 a 9 c 7 g 5 t

ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 26;
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1105 ccaagaggtgtcgcg 1118
 |||||
 Db 24 CCAAGAGGTGTGCG 11

RESULT 24

AR091212
 LOCUS AR091212 26 bp DNA PAT 07-SEP-2000
 DEFINITION Sequence 1332 from patent US 5994076.
 ACCESSION AR091212
 VERSION AR091212.1 GI:10017967
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 26)

AUTHORS Chenchik, A., Jokhadze, G. and Bibilashvili, R.
 TITLE Methods of assaying differential expression
 JOURNAL Patent: US 5994076-A 1332 30-NOV-1999;
 FEATURES Location/Qualifiers

source 1..26
 /organism="unknown"

BASE COUNT 4 a 9 c 6 g 7 t
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 26;
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 77 tacgggctccaggc 90
 |||||
 Db 4 TAGGGCTCCAGGC 17

RESULT 25

AX037841/c
 LOCUS AX037841 26 bp DNA PAT 16-NOV-2000
 DEFINITION Sequence 192 from Patent WO0059917.
 ACCESSION AX037841
 VERSION AX037841.1 GI:11227223
 KEYWORDS
 SOURCE synthetic construct.
 ORGANISM synthetic construct.

REFERENCE 1 (bases 1 to 26)

AUTHORS Howard, J.C., Feldkamp, U., Raube, H. and Banzhaf, W.
 TITLE Information-carrying and information-processing polymers
 JOURNAL Patent: WO 0059917-A 192 12-OCT-2000;
 HOWARD JONATHAN C (DE); FELDAMP UDO (DE); RAUBE HILMAR (DE);
 BANZHAF WOLFGANG (DE)

FEATURES Location/Qualifiers

source 1..26
 /organism="synthetic construct"
 /db_xref="taxon:32630"
 /note="X83L: Unique non-biological sequence for representation of data."

BASE COUNT 4 a 5 c 9 g 8 t
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 26;
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1156 cctcaagatgccca 1169

Db 16 CCTCAGATGCCCA 3
 |||||

RESULT 26

AR1913
 LOCUS AR1913 27 bp DNA PAT 22-JAN-2000
 DEFINITION Sequence 1 from Patent WO9822606.
 ACCESSION AR1913
 VERSION AR1913.1 GI:6740780
 KEYWORDS
 SOURCE unidentified.
 ORGANISM unidentified.

REFERENCE 1 (bases 1 to 27)

AUTHORS Rouy, D. and Benoit, P.
 TITLE RECOMBINANT BICISTRON ADENOVIRUS FOR TREATING PATHOLOGICAL
 JOURNAL CONDITIONS LINKED WITH DYSLIPOPROTEINEMIA
 Patent: WO 9822606-A 1 28-MAY-1998;
 ROUY DIDIER (FR); BENOIT PATRICK (FR)

FEATURES Location/Qualifiers

source 1..27
 /organism="unidentified"
 /db_xref="taxon:32644"

BASE COUNT 6 a 8 c 8 g 5 t
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 120 gcctgataaccatg 133
 |||||
 Db 1 GCCTGATAACCATG 14

RESULT 27

AR026695
 LOCUS AR026695 27 bp DNA PAT 29-SEP-1999
 DEFINITION Sequence 16 from patent US 5856134.
 ACCESSION AR026695
 VERSION AR026695.1 GI:5937535
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.

REFERENCE 1 (bases 1 to 27)

AUTHORS Kim, J.P., Fry, K.E., Young, L.M., Linnen, J.M. and Wages, J.
 TITLE Hepatitis G virus and molecular cloning thereof
 JOURNAL Patent: US 5856134-A 16 05-JAN-1999;
 FEATURES Location/Qualifiers

source 1..27

/organism="unknown"

BASE COUNT 7 a 5 c 9 g 6 t
 ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
 Best Local Similarity 100.0%; Pred. No. 8.5e+04;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1373 actgagagcagctc 1386
 |||||
 Db 7 ACTGAGAGCAGCTC 20

RESULT 28

AR026699/c
 LOCUS AR026699 27 bp DNA PAT 29-SEP-1999
 DEFINITION Sequence 21 from patent US 5856134.
 ACCESSION AR026699
 VERSION AR026699.1 GI:5937539

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KEYWORDS
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 27)
AUTHORS     Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE       Hepatitis G virus and molecular cloning thereof
JOURNAL     Patent: US 5856134-A 21 05-JAN-1999;
FEATURES    Location/Qualifiers
            1..27
            source
BASE COUNT  6 a 9 c 5 g 7 t
ORIGIN

Query Match      0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 31
AR029305          27 bp DNA PAT 29-SEP-1999
LOCUS             AR029305
DEFINITION        Sequence 27 from patent US 5859230.
ACCESSION         AR029305
VERSION           AR029305.1 GI:5941278
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE         1 (bases 1 to 27)
AUTHORS           Kim,J.P., Reyes,G.R. and Young,L.Marie.
TITLE            Non-A/non-B/non-C/non-D/non-E hepatitis agents and molecular
                cloning thereof
JOURNAL           Patent: US 5859230-A 27 12-JAN-1999;
FEATURES          Location/Qualifiers
                1..27
                source
BASE COUNT       7 a 5 c 9 g 6 t
ORIGIN

Query Match      0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 32
AR049121          27 bp DNA PAT 29-SEP-1999
LOCUS             AR049121
DEFINITION        Sequence 16 from patent US 5824507.
ACCESSION         AR049121
VERSION           AR049121.1 GI:6005160
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE         1 (bases 1 to 27)
AUTHORS           Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE            Hepatitis G virus and molecular cloning thereof
JOURNAL           Patent: US 5824507-A 16 20-OCT-1998;
FEATURES          Location/Qualifiers
                1..27
                source
BASE COUNT       7 a 5 c 9 g 6 t
ORIGIN

Query Match      0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 33
AR049121          27 bp DNA PAT 29-SEP-1999
LOCUS             AR049121
DEFINITION        Sequence 16 from patent US 5824507.
ACCESSION         AR049121
VERSION           AR049121.1 GI:6005160
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE         1 (bases 1 to 27)
AUTHORS           Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE            Hepatitis G virus and molecular cloning thereof
JOURNAL           Patent: US 5824507-A 16 20-OCT-1998;
FEATURES          Location/Qualifiers
                1..27
                source
BASE COUNT       7 a 5 c 9 g 6 t
ORIGIN

Query Match      0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 34
AR026713          27 bp DNA PAT 29-SEP-1999
LOCUS             AR026713
DEFINITION        Sequence 35 from patent US 5856134.
ACCESSION         AR026713
VERSION           AR026713.1 GI:5937553
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE         1 (bases 1 to 27)
AUTHORS           Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE            Hepatitis G virus and molecular cloning thereof
JOURNAL           Patent: US 5856134-A 35 05-JAN-1999;
FEATURES          Location/Qualifiers
                1..27
                source
BASE COUNT       7 a 5 c 9 g 6 t
ORIGIN

Query Match      0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
Db 7 ACTGAGAGCAGCTC 20

RESULT 35
AR026714          27 bp DNA PAT 29-SEP-1999
LOCUS             AR026714
DEFINITION        Sequence 36 from patent US 5856134.
ACCESSION         AR026714
VERSION           AR026714.1 GI:5937554
KEYWORDS          .
SOURCE            Unknown.
ORGANISM          Unclassified.
REFERENCE         1 (bases 1 to 27)
AUTHORS           Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE            Hepatitis G virus and molecular cloning thereof
JOURNAL           Patent: US 5856134-A 36 05-JAN-1999;
FEATURES          Location/Qualifiers
                1..27
                source
BASE COUNT       7 a 5 c 9 g 6 t
ORIGIN
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AR049125/c
LOCUS AR049125 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 21 from patent US 5824507.
ACCESSION AR049125
VERSION AR049125.1 GI:6005164
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5824507-A 21 20-OCT-1998;
FEATURES Location/Qualifiers
source 1..27
/organism="unknown"
BASE COUNT 6 a 9 c 7 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 21 ACTGAGAGCAGCTC 8

RESULT 34
AR049139
LOCUS AR049139 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 35 from patent US 5824507.
ACCESSION AR049139
VERSION AR049139.1 GI:6005178
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5824507-A 35 20-OCT-1998;
FEATURES Location/Qualifiers
source 1..27
/organism="unknown"
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 21 ACTGAGAGCAGCTC 8

RESULT 35
AR049140
LOCUS AR049140 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 36 from patent US 5824507.
ACCESSION AR049140
VERSION AR049140.1 GI:6005179
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5824507-A 36 20-OCT-1998;

FEATURES Location/Qualifiers
source 1..27
/organism="unknown"
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 7 ACTGAGAGCAGCTC 20

RESULT 36
AR065379
LOCUS AR065379 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 16 from patent US 5849532.
ACCESSION AR065379
VERSION AR065379.1 GI:5995595
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5849532-A 16 15-DEC-1998;
FEATURES Location/Qualifiers
source 1..27
/organism="unknown"
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 7 ACTGAGAGCAGCTC 20

RESULT 37
AR065383/c
LOCUS AR065383 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 21 from patent US 5849532.
ACCESSION AR065383
VERSION AR065383.1 GI:5995599
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5849532-A 21 15-DEC-1998;
FEATURES Location/Qualifiers
source 1..27
/organism="unknown"
BASE COUNT 6 a 9 c 7 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 7 ACTGAGAGCAGCTC 20

RESULT 38
AR065383/c
LOCUS AR065383 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 21 from patent US 5849532.
ACCESSION AR065383
VERSION AR065383.1 GI:5995599
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim,J.P., Fry,K.E., Young,L.Marie, Linnen,J.M. and Wages,J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5849532-A 21 15-DEC-1998;
FEATURES Location/Qualifiers
source 1..27
/organism="unknown"
BASE COUNT 6 a 9 c 7 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 7 ACTGAGAGCAGCTC 20

Db 21 ACTGAGAGCAGCTC 8

RESULT 38
LOCUS AR065397 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 35 from patent US 5849532.
ACCESSION AR065397
VERSION AR065397.1 GI:5995613
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim, J. P., Fry, K. E., Young, L. Marie, Linnen, J. M. and Wages, J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5849532-A 35 15-DEC-1998;
FEATURES Location/Qualifiers
1..27
/organism="unknown"
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 7 ACTGAGAGCAGCTC 20

RESULT 39
LOCUS AR065398 27 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 36 from patent US 5849532.
ACCESSION AR065398
VERSION AR065398.1 GI:5995614
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 27)
AUTHORS Kim, J. P., Fry, K. E., Young, L. Marie, Linnen, J. M. and Wages, J.
TITLE Hepatitis G virus and molecular cloning thereof
JOURNAL Patent: US 5849532-A 36 15-DEC-1998;
FEATURES Location/Qualifiers
1..27
/organism="unknown"
BASE COUNT 7 a 5 c 9 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1373 actgagagcagctc 1386
|||||
Db 7 ACTGAGAGCAGCTC 20

RESULT 40
LOCUS I22030 28 bp DNA PAT 07-OCT-1996
DEFINITION Sequence 4 from patent US 5525504.
ACCESSION I22030
VERSION I22030.1 GI:1602384
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 28)
AUTHORS Goebel, W., Libby, S. J. and Heffron, F.
TITLE Cytolysin gene and gene product
JOURNAL Patent: US 5525504-A 4 11-JUN-1996;
FEATURES Location/Qualifiers
1..28
/organism="unknown"
BASE COUNT 11 a 3 c 7 g 7 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 28;
Best Local Similarity 100.0%; Pred. No. 8.5e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 686 aattcatctctt 699
|||||
Db 19 AATTTCATCTCCTT 6

RESULT 41
LOCUS AX167972 31 bp DNA PAT 03-JUL-2001
DEFINITION Sequence 156 from Patent WO0142307.
ACCESSION AX167972
VERSION AX167972.1 GI:14597292
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 31)
AUTHORS Saito, K., Ohe, N. and Satoh, H.
TITLE Mutant ex-9(a) and test systems for transactivation
JOURNAL Patent: WO 0142307-A 156 14-JUN-2001;
SUMITOMO Chemical Company, Limited (JP)
FEATURES Location/Qualifiers
1..31
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Designed oligonucleotide primer for mutagenesis"
BASE COUNT 5 a 9 c 10 g 7 t
ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 31;
Best Local Similarity 100.0%; Pred. No. 8.4e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 144 cagtcctgaccctg 157
|||||
Db 19 CAGTCCTGACCTG 6

RESULT 42
LOCUS AX107235 32 bp DNA PAT 30-APR-2001
DEFINITION Sequence 54 from Patent WO0123606.
ACCESSION AX107235
VERSION AX107235.1 GI:13922720
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 32)
AUTHORS Grabowski, R. and Berghof, K.
TITLE Nucleic acid molecules for detecting bacteria and phylogenetic
units of bacteria
JOURNAL Patent: WO 0123606-A 54 05-APR-2001;
Biotecon Diagnostics GmbH (DE)
FEATURES Location/Qualifiers
1..32
/organism="synthetic construct"
/db_xref="taxon:32630"
source

BASE COUNT 9 a 6 c 12 g 5 t
ORIGIN /note="abgeleitet von Gattungen der Enterobakterien"

Query Match 0.8%; Score 14; DB 6; Length 32;
Best Local Similarity 100.0%; Pred. No. 8.4e+04;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 712 ggtcctgaaggac 725

Db 3 GGTCTGAAGGAC 16

RESULT 43

AX107358

LOCUS

DEFINITION Sequence 32 bp DNA PAT 30-APR-2001

ACCESSION AX107358

VERSION AX107358.1 GI:13922843

KEYWORDS

SOURCE

ORGANISM

Pantoea dispersa.

Bacteria; Proteobacteria; gamma subdivision; Enterobacteriaceae;

Pantoea.

REFERENCE

AUTHORS

TITLE

JOURNAL

Patent: WO 0123506-A 177 05-APR-2001;

Biotecon Diagnostics GmbH (DE)

Location/Qualifiers

1. .32

source

/organism="Pantoea dispersa"

/db_xref="taxon:59814"

9 a 7 c 13 g 3 t

BASE COUNT

ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 32;

Best Local Similarity 100.0%; Pred. No. 8.4e+04;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 712 ggtcctgaaggac 725

Db 3 GGTCTGAAGGAC 16

RESULT 44

AR014162/c

LOCUS

DEFINITION Sequence 33 bp DNA PAT 05-DEC-1998

ACCESSION AR014162

VERSION AR014162.1 GI:3971616

KEYWORDS

SOURCE

Unknown.

Unclassified.

REFERENCE

1 (bases 1 to 33)

AUTHORS

TITLE

Fibroblast growth factor 15

JOURNAL

Patent: US 5773252-A 4 30-JUN-1998;

Location/Qualifiers

1. .33

source

/organism="unknown"

5 a 6 c 9 g 13 t

BASE COUNT

ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 33;

Best Local Similarity 100.0%; Pred. No. 8.4e+04;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1168 caagatctctgccc 1181

Db 14 CAAGATCTCTGCCC 1

RESULT 45

AX067826/c

LOCUS

DEFINITION Sequence 63 bp DNA PAT 19-JAN-2001

ACCESSION AX067826

VERSION AX067826.1 GI:12329704

KEYWORDS

SOURCE

ORGANISM

synthetic construct.

artificial sequence.

REFERENCE

1 (bases 1 to 33)

AUTHORS

TITLE

JOURNAL

Patent: WO 0077043-A 63 21-DEC-2000;

MERIAL (FPR)

Location/Qualifiers

1. .33

source

/organism="synthetic construct"

/db_xref="taxon:32630"

/note="oligonuclotide"

9 a 6 c 9 g 9 t

BASE COUNT

ORIGIN

Query Match 0.8%; Score 14; DB 6; Length 33;

Best Local Similarity 100.0%; Pred. No. 8.4e+04;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1750 ctatcctaaaggcc 1763

Db 20 CTATCCTAAAGGCC 7

Search completed: April 20, 2002, 01:08:26

Job time: 11465 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: April 19, 2002, 23:59:08 ; Search time 184.86 Seconds
(without alignments)
8287.570 Million cell updates/sec

Title: US-09-925-139-3
Perfect score: 1787
Sequence: 1 gtaatctctggggccaggga.....ggcattaaagtgtgtatcc 1787

Scoring table: OLIGO_NUC
Gapop 60.0 , Gapext 60.0

Searched: 930621 seqs, 428662619 residues

Word size : 0
Total number of hits satisfying chosen parameters: 989696

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : N_Geneseq_1101.*
1: /SIDS2/gcgdata/geneseq/geneseq/NA1980.DAT.*
2: /SIDS2/gcgdata/geneseq/geneseq/NA1981.DAT.*
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4: /SIDS2/gcgdata/geneseq/geneseq/NA1983.DAT.*
5: /SIDS2/gcgdata/geneseq/geneseq/NA1984.DAT.*
6: /SIDS2/gcgdata/geneseq/geneseq/NA1985.DAT.*
7: /SIDS2/gcgdata/geneseq/geneseq/NA1986.DAT.*
8: /SIDS2/gcgdata/geneseq/geneseq/NA1987.DAT.*
9: /SIDS2/gcgdata/geneseq/geneseq/NA1988.DAT.*
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11: /SIDS2/gcgdata/geneseq/geneseq/NA1990.DAT.*
12: /SIDS2/gcgdata/geneseq/geneseq/NA1991.DAT.*
13: /SIDS2/gcgdata/geneseq/geneseq/NA1992.DAT.*
14: /SIDS2/gcgdata/geneseq/geneseq/NA1993.DAT.*
15: /SIDS2/gcgdata/geneseq/geneseq/NA1994.DAT.*
16: /SIDS2/gcgdata/geneseq/geneseq/NA1995.DAT.*
17: /SIDS2/gcgdata/geneseq/geneseq/NA1996.DAT.*
18: /SIDS2/gcgdata/geneseq/geneseq/NA1997.DAT.*
19: /SIDS2/gcgdata/geneseq/geneseq/NA1998.DAT.*
20: /SIDS2/gcgdata/geneseq/geneseq/NA1999.DAT.*
21: /SIDS2/gcgdata/geneseq/geneseq/NA2000.DAT.*
22: /SIDS2/gcgdata/geneseq/geneseq/NA2001.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	2.6	46	15	AAQ69339
2	46	2.6	46	18	AAQ63801
3	46	2.6	46	20	AAI17089
4	34	1.9	34	20	AAI36594
5	30	1.7	30	20	AAI22540
6	27	1.5	40	20	AAI36595
7	21	1.2	24	20	AAI86985
8	18	1.0	18	17	AAI50642
9	18	1.0	18	17	AAI50596
10	18	1.0	18	17	AAI50597
11	18	1.0	18	17	AAI50598

12	18	1.0	18	17	AAI50599	Human CETP hairpin
13	18	1.0	18	17	AAI50600	Human CETP hairpin
14	18	1.0	18	17	AAI50601	Human CETP hairpin
15	18	1.0	18	17	AAI50602	Human CETP hairpin
16	18	1.0	18	17	AAI50603	Human CETP hairpin
17	18	1.0	18	17	AAI50604	Human CETP hairpin
18	18	1.0	18	17	AAI50605	Human CETP hairpin
19	18	1.0	18	17	AAI50606	Human CETP hairpin
20	18	1.0	18	17	AAI50607	Human CETP hairpin
21	18	1.0	18	17	AAI50608	Human CETP hairpin
22	18	1.0	18	17	AAI50609	Human CETP hairpin
23	18	1.0	18	17	AAI50610	Human CETP hairpin
24	18	1.0	18	17	AAI50611	Human CETP hairpin
25	18	1.0	18	17	AAI50612	Human CETP hairpin
26	18	1.0	18	17	AAI50613	Human CETP hairpin
27	18	1.0	18	17	AAI50614	Human CETP hairpin
28	18	1.0	18	17	AAI50615	Human CETP hairpin
29	18	1.0	18	17	AAI50616	Human CETP hairpin
30	18	1.0	18	17	AAI50617	Human CETP hairpin
31	18	1.0	18	17	AAI50618	Human CETP hairpin
32	18	1.0	18	17	AAI50619	Human CETP hairpin
33	18	1.0	18	17	AAI50620	Human CETP hairpin
34	18	1.0	18	17	AAI50621	Human CETP hairpin
35	18	1.0	18	17	AAI50622	Human CETP hairpin
36	18	1.0	18	17	AAI50623	Human CETP hairpin
37	18	1.0	18	17	AAI50624	Human CETP hairpin
38	18	1.0	18	17	AAI50625	Human CETP hairpin
39	18	1.0	18	17	AAI50743	Rabbit CETP hairpi
40	18	1.0	18	17	AAI50626	Human CETP hairpin
41	18	1.0	18	17	AAI50627	Human CETP hairpin
42	18	1.0	18	17	AAI50628	Human CETP hairpin
43	18	1.0	18	17	AAI50629	Human CETP hairpin
44	18	1.0	18	17	AAI50630	Human CETP hairpin
45	18	1.0	18	17	AAI50631	Human CETP hairpin

ALIGNMENTS

RESULT 1
AAQ69339
ID AAQ69339 standard; DNA; 46 BP.
XX
AC AAQ69339;
XX
DI 22-FEB-1995 (first entry)
XX
DE Human CETP gene, target region.
XX
KW DNA protein-binding assay; test sequence; screening sequence;
KW promoter; target; TATA box; Herpes Simplex Virus; HSV;
KW origin of replication; UL9; transcription factor; TFID;
KW CETP; cholesterol ester transferase protein; ds.
XX
OS Synthetic.
XX
PN WO9414980-A.
XX
PD 07-JUL-1994.
XX
PF 20-DEC-1993; 93WO-US12388.
XX
PR 23-DEC-1992; 92US-0996783.
PR 17-SEP-1993; 93US-0123936.
(GENE-) GENELABS TECHNOLOGIES INC.
PI Andrews BM, Cantor CR, Edwards CA, Fry KE, Turin LM;
XX WPI; 1994-234711/28.
XX
PT Sequence-directed DNA-binding molecules - useful in pharmaceuticals and as molecular reagents

XX PS Claim 3; Columns 145-146; 270pp; English.

CC Sequences AAX17001 to AAX17600 represent specifically claimed target

CC test sequences that are used in the method of the invention of

CC determining the DNA sequence preference of a DNA-binding molecule. The

CC method comprises: (i) adding a test molecule and a DNA-binding protein to

CC a mixture of duplex DNA test oligonucleotides, each of the test

CC oligonucleotides having a test sequence adjacent to a screening sequence,

CC where the screening sequence binds to the DNA-binding protein with a

CC binding affinity that is independent of the DNA sequence of the test

CC sequences, and where the mixture of duplex DNA test oligonucleotides

CC includes several test sequences; (ii) incubating the test molecule, the

CC mixture of duplex DNA test oligonucleotides and the DNA-binding protein

CC for a time sufficient to permit binding of the test molecule to test

CC sequences in the duplex DNA; (iii) separating unbound test

CC oligonucleotides from test oligonucleotides bound to binding protein;

CC (iv) amplifying the unbound test oligonucleotides; (v) repeating steps

CC (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and

CC (vii) sequencing the isolated test oligonucleotides. Test sequences

CC AAX17001-X17481 and AAX17600 correspond to promoter targets for human

CC genes and test sequences AAX17482-X17599 correspond to promoter targets

CC for viral genes.

XX SQ Sequence 46 BP; 9 A; 11 C; 19 G; 7 T; 0 other;

Query Match 2.6%; Score 46; DB 20; Length 46;

Best Local Similarity 100.0%; Pred. NO. 2.1e-12;

Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 53 gtggggctggggacatacatatcagggtccagctgaacggc 98

Db 1 gtggggctggggacatacatatcagggtccagctgaacggc 46

RESULT - 4

AAX36594

ID AAX36594 standard; DNA; 34 BP.

XX AC AAX36594;

XX DT 08-JUL-1999 (first entry)

XX DE PCR primer for Mammalian CERP immunogenic fragment coding sequence.

XX KW CERP; cholesteryl-ester transfer protein; recombinant DNA vaccine; HDL;

XX KW antibody production; cholesteryl ester transfer; therapy;

XX KW high density lipoprotein; HDL cholesterol concentration;

XX KW pro-atherogenic dyslipoproteinaemia; PCR primer; ss.

XX OS Synthetic.

XX OS Homo sapiens.

XX PN W09915655-Al.

XX PD 01-APR-1999.

XX PF 17-SEP-1998; 98WO-US19366.

XX PR 19-SEP-1997; 97US-0934367.

XX PA (MONS) MONSANTO CO.

XX PI Glenn K, Needleman P;

XX DR WPI; 1999-276984/23.

XX PT New recombinant DNA vaccines

XX PS Example 3; Page 49; 99pp; English.

XX CC This sequence is a PCR primer for DNA encoding an immunogenic fragment of

CC the human cholesteryl ester transferase protein (CETP).

CC The invention relates to recombinant DNA vaccines that contain DNA

CC encoding CETP, which can be used for producing antibodies to lessen the

CC transfer of cholesteryl esters from high density lipoprotein (HDL). The

CC method can provide an autogenic immunological process for lessening the

CC transfer of cholesteryl esters from HDL particles and for increasing the

CC HDL cholesterol concentration of a mammal whose blood also contains

CC CETP. The method may be useful in treating human pro-atherogenic

CC dyslipoproteinaemias characterised by low HDL/LDL cholesterol ratios. The

CC method can have an effect that lasts for months as compared to the

CC short-term effects of the small molecule drugs now available.

XX SQ Sequence 34 BP; 6 A; 9 C; 9 G; 10 T; 0 other;

Query Match 1.9%; Score 34; DB 20; Length 34;

Best Local Similarity 100.0%; Pred. No. 1.5e-06;

Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1522 gattatcactcgagatggcttcctgctgctgcag 1555

Db 1 gattatcactcgagatggcttcctgctgctgcag 34

RESULT 5

AAX22540/c

ID AAX22540 standard; DNA; 30 BP.

XX AC AAX22540;

XX DT 21-MAY-1999 (first entry)

XX DE Human CETP DNA fragment #1.

XX KW CERP; cholesteryl ester transfer protein; inhibitor; therapy; treatment;

XX KW surface plasmon resonance; vascular disease; pathogenic; atherosclerosis;

XX KW human; ss.

XX OS Homo sapiens.

XX PN DE19731609-Al.

XX PD 18-FEB-1999.

XX PF 23-JUL-1997; 97DE-1031609.

XX PR 23-JUL-1997; 97DE-1031609.

XX PA (BOEH) BOEHRINGER INGELHEIM PHARMA KG.

XX PI Budzinski R, Krist B, Mark M, Mueller P;

XX DR WPI; 1999-143775/13.

XX PT RNA transcript of human cholesteryl ester transfer protein gene

XX PT useful in drug screening assays, especially for atherosclerosis

XX PS Claim 31; Page 9; 24pp; German.

XX CC This invention describes the isolation of a transcript of the human

XX CC cholesteryl ester transfer protein (CETP) gene having a 5' untranslated

XX CC region including a regulatory sequence. The invention also describes

XX CC a method (a) for identifying substances capable of inhibiting CETP gene

XX CC expression, comprising measuring the translation rate of the above

XX CC transcript in the presence of a test substance, (2) a test substance

XX CC capable of inhibiting CETP gene expression, (3) an antisense

XX CC oligonucleotide capable of binding to the 5' untranslated region of the

XX CC above transcript and (4) a method based on surface plasmon resonance for

XX CC measuring the binding of a substance to a nucleic acid. The test

XX CC substance of (2) and the oligonucleotide of (3) are useful for

XX CC prophylactic or therapeutic treatment of vascular diseases in which CETP

XX CC has a pathogenic role, especially atherosclerosis.

SQ Sequence 30 BP; 6 A; 3 C; 12 G; 9 T; 0 other;

Query Match 1.7%; Score 30; DB 20; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.00013;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 105 cacttacacaccctgcctgataaccatgc 134
|||||
DB 30 CACTTACACACCACTGCTGATAACCATGC 1

RESULT 6

AAX36595/c
ID AAX36595 standard; DNA; 40 BP.

XX
AC AAX36595;

XX
DT 08-JUL-1999 (first entry)

XX PCR primer for Mammalian CETP immunogenic fragment coding sequence.

XX CETP; cholesteryl-ester transfer protein; recombinant DNA vaccine; HDL;
KW antibody production; cholesteryl ester transfer; therapy;
KW high density lipoprotein; HDL cholesterol concentration;
KW pro-atherogenic dyslipoproteinaemia; PCR primer; ss.

XX Synthetic.

XX Homo sapiens.

XX WO9915655-A1.

XX
PD 01-APR-1999.

XX
PF 17-SEP-1998; 98WO-US19366.

XX
PR 19-SEP-1997; 97US-0934367.

XX (MONS) MONSANTO CO.

XX Glenn K, Needleman P;

XX WPI; 1999-276984/23.

XX New recombinant DNA vaccines

XX Example 3; Page 50; 99pp; English.

XX This sequence is a PCR primer for DNA encoding an immunogenic fragment of
CC the human cholesteryl ester transferase protein (CETP).

CC The invention relates to recombinant DNA vaccines that contain DNA

CC encoding CETP, which can be used for producing antibodies to lessen the

CC transfer of cholesteryl esters from high density lipoprotein (HDL). The

CC method can provide an autogenic immunological process for lessening the

CC transfer of cholesteryl esters from HDL particles and for increasing the

CC HDL cholesterol concentration of a mammal whose blood also contains

CC CETP. The method may be useful in treating human pro-atherogenic

CC dyslipoproteinaemias characterised by low HDL/HDL cholesterol ratios. The

CC method can have an effect that lasts for months as compared to the

CC short-term effects of the small molecule drugs now available.

XX Sequence 40 BP; 12 A; 11 C; 10 G; 7 T; 0 other;

Query Match 1.5%; Score 27; DB 20; Length 40;

Best Local Similarity 100.0%; Pred. No. 0.0038;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1583 ctggtgatttctccagagcttgagc 1609

|||||

DB 40 CTGGTGGATTTCCTCCAGAGCTTGAGC 14

RESULT 7

AAX86985/c
ID AAX86985 standard; DNA; 24 BP.

XX
AC AAX86985;

XX
DT 24-SEP-1999 (first entry)

XX Cholesteryl ester transfer protein (CETP) gene amplifying reverse primer.

XX Lipid-lowering therapy; LIT; coronary artery disease; CAD; CETP;

XX TaqIB restriction site; cholesterol ester transfer protein; HDL;

XX high-density lipoprotein; PCR primer; ss.

XX Synthetic.

XX Homo sapiens.

XX WO9935286-A2.

XX
PD 15-JUL-1999.

XX
PF 06-JAN-1999; 99WO-EP00150.

XX
PR 07-JAN-1998; 98EP-0200022.

XX (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.

XX Kastelein JJP, Kulvenhoven JA;

XX
DR WPI; 1999-444202/37.

XX Assay for testing the genetic predisposition to respond to

XX lipid-lowering therapy in patients with coronary artery disease

XX (CAD)

XX Claim 2; Page 20; 25pp; English.

XX The invention relates to an assay for testing the genetic predisposition

XX to respond to lipid-lowering therapy (LIT) in patients with coronary

XX artery disease (CAD). The method comprises detecting a TaqIB restriction

XX site in intron 1 of both alleles of the cholesterol ester transfer

XX protein (CETP) gene by a suitable technique, and correlating the

XX presence of the site with a high or intermediate susceptibility for LIT.

XX The TaqIB polymorphism in the CETP gene is associated with an effect on

XX lipid transfer activity and high-density lipoprotein (HDL) levels. This

XX facilitates predicting the success of LIT's in patients. Sequences

XX AAX86984-85 represent PCR primers derived from the CETP gene and are

XX used for testing the predisposition to respond to LIT in patients with

XX CAD.

XX Sequence 24 BP; 6 A; 8 C; 3 G; 7 T; 0 other;

Query Match 1.2%; Score 21; DB 20; Length 24;

Best Local Similarity 100.0%; Pred. No. 3.2; 0; Indels 0; Gaps 0;

Matches 21; Conservative 0; Mismatches 0;

QY 343 agtcaagtatgggttcacaa 363

|||||

DB 24 AGTCAAGTATGGGTTCACAA 4

RESULT 8

AAT50642

ID AAT50642 standard; RNA; 18 BP.

XX
AC AAT50642;

XX
DT 10-MAR-1997 (first entry)

XX Human CETP hairpin ribozyme target sequence #1669.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;

XX KW

KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX Homo sapiens.
 XX WO9620279-A1.
 PD 04-JUL-1996.
 XX 11-DEC-1995; 95WO-US16000.
 XX 23-DEC-1994; 94US-0363240.
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX Claim 4; Page 54; 72pp; English.
 PS AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX Sequence 18 BP; 4 A; 7 C; 4 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 83.3%; Pred. No. 91;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1663 gctcacagctggaaacct 1680
 Db 1 gcucacagcuggaacccu 18

RESULT 9
 AAT50596
 ID AAT50596 standard; RNA; 18 BP.
 XX
 AC AAT50596;
 XX

DT 10-MAR-1997 (first entry)
 XX Human CETP hairpin ribozyme target sequence #30.
 DE Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX Homo sapiens.
 XX WO9620279-A1.
 PD 04-JUL-1996.
 XX 11-DEC-1995; 95WO-US16000.
 XX 23-DEC-1994; 94US-0363240.
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX Claim 4; Page 52; 72pp; English.
 PS AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX Sequence 18 BP; 3 A; 7 C; 6 G; 2 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 88.9%; Pred. No. 91;
 Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 24 cctgctgcccgaagag 41
 Db 1 cccugcugcccgaagag 18

RESULT 10

AAT50597		1: :
ID	AAT50597 standard; RNA; 18 BP.	Db
XX		
AC	AAT50597;	
XX		
DT	10-MAR-1997 (first entry)	RESULT 11
XX		AAT50598
DE	Human CERP hairpin ribozyme target sequence #96.	ID AAT50598 standard; RNA; 18 BP.
XX		XX AAT50598;
XX		AC
XX		XX
KW	Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;	DT 10-MAR-1997 (first entry)
KW	neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;	XX Human CERP hairpin ribozyme target sequence #119.
KW	reverse cholesterol transport; high density lipoprotein; therapy; CERP;	DE
KW	familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;	XX
KW	peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;	KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
KW	angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;	KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
KW	LDL; ss.	KW reverse cholesterol transport; high density lipoprotein; therapy; CERP;
XX		KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
OS	Homo sapiens.	KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX		KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
PN	WO9620279-A1.	KW LDL; ss.
PD	04-JUL-1996.	OS Homo sapiens.
XX		OS
PF	11-DEC-1995; 95WO-US16000.	PN WO9620279-A1.
XX		PN
PR	23-DEC-1994; 94US-0363240.	XX 04-JUL-1996.
XX		XX
PA	(RIBO-) RIBOZYME PHARM INC.	XX 11-DEC-1995; 95WO-US16000.
PA	(WARN) WARNER LAMBERT CO.	XX 23-DEC-1994; 94US-0363240.
XX		PR (RIBO-) RIBOZYME PHARM INC.
PI	Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;	PA (WARN) WARNER LAMBERT CO.
XX		XX Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
DR	WPI; 1996-321852/32.	XX WPI; 1996-321852/32.
XX		PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX		PT - useful for preventing or treating initial development, progression
PT		PT or regression of vascular diseases, esp. familial
PT		PT hypercholesterolaemia
XX		XX Claim 4; Page 52; 72pp; English.
PS		XX AAT50595-T50642 represent target sequences for the human cholesterol
XX		XX ester transfer protein (CERP) hairpin ribozymes (see AAT50547-T50594).
CC		CC CERP is a 74 kD glycoprotein that facilitates neutral lipid transfer
CC		CC between plasma lipoproteins. The numbering of the targets refers to the
CC		CC position of the cleavage site in full length CERP. The ribozyme then
CC		CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
CC		CC ribozymes are able to cleave mRNA from the gene encoding CERP, thereby
CC		CC blocking synthesis and/or expression of the mRNA. By inhibiting CERP,
CC		CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
CC		CC eliminated) thereby preventing the reduction in size density of the high
CC		CC density lipoproteins (HDL), prolonging HDL half life, and therefore
CC		CC increasing HDL levels. The ribozymes can be used to treat conditions
CC		CC associated with abnormal levels of CERP, specifically atherosclerosis,
CC		CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
CC		CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
CC		CC complications of diabetes, transplant, atherectomy and angioplastic
CC		CC restenosis. By inhibiting CERP, the levels of HDL and low density
CC		CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
CC		CC decrease in LDL levels, and a corresponding increase in HDL levels). The
CC		CC ribozymes can also be used diagnostically to study genetic drift and
CC		CC mutations in diseased cells, and to detect CERP mRNA. As the ribozymes
CC		CC target specific regions of the CERP gene, they have low non-specific
CC		CC activity.
XX		XX Sequence 18 BP; 3 A; 7 C; 6 G; 2 U; 0 other;
SQ		SQ
Query Match		1.0%; Score 18; DB 17; Length 18;
Best Local Similarity		88.9%; Pred. No. 91;
Matches	16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;	
90 ctgaacggctcgggccac 107		

	Query Match	1.0%; Score 18; DB 17; Length 18;
	Best Local Similarity	83.3%; Pred. No. 91;
	Matches	15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY	113 caccactgctgtatacc 130	
Dd	1 caccacugcguauaac 18	
	:: ::	
	: :: :: :	
QY	139 tgcacagtcctgacctt 156	
Dd	1 ugccacaguccagaccu 18	
	: :: :: :	
	: :: :: :	
	RESULT 13	
ID	AAT50599 standard; RNA; 18 BP.	
XX	AAT50600	
AC	AAT50600;	
DT	10-MAR-1997 (first entry)	
DE	Human CETP hairpin ribozyme target sequence #150.	
XX	Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;	
KW	neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectiony;	
KW	reverse cholesterol transport; high density lipoprotein; therapy; CETP;	
KW	familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;	
KW	peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;	
KW	angioplastastic restenosis; low density lipoprotein; diabetes; HDL; human;	
LDL; ss.		
OS	Homo sapiens.	
WO9620279-A1.		
PD	04-JUL-1996.	
Pf	11-DEC-1995; 95WO-US16000.	
PR	23-DEC-1994; 94US-0363240.	
PA	(RIBO-) RIBOZYME PHARM INC.	
PI	(WARN) WARNER LAMBERT CO.	
Bisgalier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;		
WPI; 1996-321852/32.		
New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA		
- useful for preventing or treating initial development, progression		
or regression of vascular diseases, esp. familial		
hypercholesterolaemia		
Claim 4; Page 52; 72pp; English.		
AAT50595-T50642 represent target sequences for the human cholesterol		
ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).		
CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer		
between plasma lipoproteins. The numbering of the targets refers to the		
position of the cleavage site in full length CETP. The ribozyme then		
binds to 4-6 nucleotides 5', and a variable number 3' of this site. The		
ribozymes are able to cleave mRNA from the gene encoding CETP, thereby		
blocking synthesis and/or expression of the mRNA. By inhibiting CETP,		
the reverse cholesterol transporting the reduction in size density of the high		
density lipoproteins (HDL), prolonging HDL half life, and therefore		
associated with abnormal levels of CETP, specifically atherosclerosis,		
peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,		
familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular		
complications of diabetes, transplant, atherectiony and angioplastic		
restenosis. By inhibiting CETP, the levels of HDL and low density		
lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a		
decrease in LDL levels, and a corresponding increase in HDL levels). The		
ribozymes can also be used diagnostically to study genetic drift and		
mutations in diseased cells, and to detect CETP mRNA. As the ribozymes		
target specific regions of the CETP gene, they have low non-specific		

CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
CC decrease in LDL levels, and a corresponding increase in HDL levels). The
CC ribozymes can also be used diagnostically to study genetic drift and
CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
CC target specific regions of the CETP gene, they have low non-specific
CC activity.
XX Sequence 18 BP; 2 A; 9 C; 4 G; 3 U; 0 other;
SQ

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 83.3%; Pred. No. 91;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 144 cagtcctgaccctggccc 161
Db 1 caguccgagaccggccc 18

RESULT 14
AAT50601
ID AAT50601 standard; RNA; 18 BP.
XX AC AAT50601;
XX DT 10-MAR-1997 (first entry)
XX DE Human CETP hairpin ribozyme target sequence #162.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
KW familial hypercholesterolaemia; dyslipidaemia; hypoalipoproteinaemia;
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
KW LDL; SS.

XX Homo sapiens.
XX WO9620279-A1.
XX PD 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX WPI; 1996-321852/32.
XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX - useful for preventing or treating initial development, progression
XX or regression of vascular diseases, esp. familial
XX hypercholesterolaemia
XX Claim 4; Page 52; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol
XX ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
XX CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX between plasma lipoproteins. The numbering of the targets refers to the
XX position of the cleavage site in full length CETP. The ribozyme then
XX binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX the reverse cholesterol transport (RCT) pathway can be inhibited (or
XX eliminated) thereby preventing the reduction in size density of the high
XX density lipoproteins (HDL), prolonging HDL half life, and therefore
XX increasing HDL levels. The ribozymes can be used to treat conditions

CC associated with abnormal levels of CETP, specifically atherosclerosis,
CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
CC familial hypercholesterolaemia, hypoalipoproteinaemia, vascular
CC complications of diabetes, transplant, atherectomy and angioplasty
CC stenosis. By inhibiting CETP, the levels of HDL and low density
CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
CC decrease in LDL levels, and a corresponding increase in HDL levels). The
CC ribozymes can also be used diagnostically to study genetic drift and
CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
CC target specific regions of the CETP gene, they have low non-specific
CC activity.
XX Sequence 18 BP; 2 A; 5 C; 7 G; 4 U; 0 other;
SQ

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 77.8%; Pred. No. 91;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 156 tggccctgctgggcaatg 173
Db 1 ugccccugcgggcaag 18

RESULT 15
AAT50602
ID AAT50602 standard; RNA; 18 BP.
XX AC AAT50602;
XX DT 10-MAR-1997 (first entry)
XX DE Human CETP hairpin ribozyme target sequence #182.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
KW familial hypercholesterolaemia; dyslipidaemia; hypoalipoproteinaemia;
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
KW LDL; SS.

XX Homo sapiens.
XX WO9620279-A1.
XX PD 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN) WARNER LAMBERT CO.
XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX - useful for preventing or treating initial development, progression
XX or regression of vascular diseases, esp. familial
XX hypercholesterolaemia
XX Claim 4; Page 52; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol
XX ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
XX CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX between plasma lipoproteins. The numbering of the targets refers to the
XX position of the cleavage site in full length CETP. The ribozyme then
XX binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX ribozymes are able to cleave mRNA from the gene encoding CETP, thereby

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CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia, familial hypercholesterolaemia, hypopalipoproteinaemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

CC Sequence 18 BP; 4 A; 7 C; 4 G; 3 U; 0 other;

XX Query Match 1.0%; Score 18; DB 17; Length 18;

SQ Best Local Similarity 83.3%; Pred. No. 91;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 176 catgctgtctcaaggc 193

Db 1 caugccugcuccaaggc 18

|||||:|||||

RESULT 16

AAT50603

ID AAT50603 standard; RNA; 18 BP.

XX AAT50603;

XX 10-MAR-1997 (first entry)

XX Human CETP hairpin ribozyme target sequence #235.

DE Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;

XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;

KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;

KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;

KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;

KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;

LDL; ss.

XX Homo sapiens.

OS WO9620279-A1.

PN 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

PI WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA

XX - useful for preventing or treating initial development, progression

PT or regression of vascular diseases, esp. familial

PT hypercholesterolaemia

XX Claim 4; Page 52; 72pp; English.

PS AAT50595-T50642 represent target sequences for the human cholesterol

CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).

CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia, familial hypercholesterolaemia, hypopalipoproteinaemia, vascular complications of diabetes, transplant, atherectomy and angioplasty restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

CC Sequence 18 BP; 2 A; 8 C; 4 G; 4 U; 0 other;

XX Query Match 1.0%; Score 18; DB 17; Length 18;

SQ Best Local Similarity 77.8%; Pred. No. 91;

Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 229 caagcctgccctcgtggt 246

Db 1 caagccugcuccuuggu 18

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RESULT 17

AAT50604

ID AAT50604 standard; RNA; 18 BP.

XX AAT50604;

XX 10-MAR-1997 (first entry)

XX Human CETP hairpin ribozyme target sequence #276.

DE Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;

XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;

KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;

KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;

KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;

KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;

LDL; ss.

XX Homo sapiens.

OS WO9620279-A1.

PN 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

PI WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA

XX - useful for preventing or treating initial development, progression

PT or regression of vascular diseases, esp. familial

PT hypercholesterolaemia

XX Claim 4; Page 52; 72pp; English.

PS AAT50595-T50642 represent target sequences for the human cholesterol

CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).

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XX PS Claim 4; Page 52; 72pp; English.
XX CC AAT50595-T50642 represent target sequences for the human cholesterol
XX CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
XX CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX CC between plasma lipoproteins. The numbering of the targets refers to the
XX CC position of the cleavage site in full length CETP. The ribozyme then
XX CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
XX CC eliminated) thereby preventing the reduction in size density of the high
XX CC density lipoproteins (HDL), prolonging HDL half life, and therefore
XX CC associated with abnormal levels of CETP, specifically atherosclerosis,
XX CC peripheral hypercholesterolaemia, hyperbetalipoproteinaemia, vascular
XX CC complications of diabetes, transplant, atherectomy and angioplasty
XX CC restenosis. By inhibiting CETP, the levels of HDL and low density
XX CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX CC decrease in LDL levels, and a corresponding increase in HDL levels). The
XX CC ribozymes can also be used diagnostically to study genetic drift and
XX CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
XX CC target specific regions of the CETP gene, they have low non-specific
XX CC activity.
XX CC Sequence 18 BP; 3 A; 8 C; 3 G; 4 U; 0 other;
XX SQ

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 77.8%; Pred. No. 91;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 270 tgatccagaccgcttc 287
DB 1 ugaucagaccgcuucc 18
|||||

RESULT 18
AAT50605
ID AAT50605 standard; RNA; 18 BP..
XX AC AAT50605;
XX DT 10-MAR-1997 (first entry)
XX DE Human CETP hairpin ribozyme target sequence #280.
XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
XX KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
XX KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
XX KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX KW LDL; ss.
XX OS Homo sapiens.
XX PN WO9620279-A1.
XX PD 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Bisgafer C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX WPI; 1996-321852/32.
XX DR

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
- useful for preventing or treating initial development, progression
or regression of vascular diseases, esp. familial
hypercholesterolaemia

Claim 4; Page 52; 72pp; English.

AAT50595-T50642 represent target sequences for the human cholesterol
ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
between plasma lipoproteins. The numbering of the targets refers to the
position of the cleavage site in full length CETP. The ribozyme then
binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
the reverse cholesterol transport (RCT) pathway can be inhibited (or
eliminated) thereby preventing the reduction in size density of the high
density lipoproteins (HDL), prolonging HDL half life, and therefore
associated with abnormal levels of CETP, specifically atherosclerosis,
peripheral hypercholesterolaemia, hyperbetalipoproteinaemia, vascular
complications of diabetes, transplant, atherectomy and angioplastic
restenosis. By inhibiting CETP, the levels of HDL and low density
lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
decrease in LDL levels, and a corresponding increase in HDL levels). The
ribozymes can also be used diagnostically to study genetic drift and
mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
target specific regions of the CETP gene, they have low non-specific
activity.

Sequence 18 BP; 3 A; 9 C; 4 G; 2 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 88.9%; Pred. No. 91;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 274 ccagaccgcttcacg 291
DB 1 ccagaccgcuuccag 18
|||||

RESULT 19
AAT50606
ID AAT50606 standard; RNA; 18 BP.
XX AC AAT50606;
XX DT 10-MAR-1997 (first entry)
XX DE Human CETP hairpin ribozyme target sequence #369.
XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
XX KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
XX KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
XX KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX KW LDL; ss.
XX OS Homo sapiens.
XX PN WO9620279-A1.
XX PD 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Bisgafer C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX WPI; 1996-321852/32.
XX DR

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PA (WARN ) WARNER LAMBERT CO.
XX
PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX
XX (RIBO-) RIBOZYME PHARM INC.
XX (WARN ) WARNER LAMBERT CO.
XX
XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
PI
XX WPI; 1996-321852/32.
XX
XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT - useful for preventing or treating initial development, progression
PT or regression of vascular diseases, esp. familial
PT hypercholesterolaemia
XX
XX Claim 4; Page 52; 72pp; English.
XX
XX AAT50595-T50642 represent target sequences for the human cholesterol
CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
CC CETP is a 74 kd glycoprotein that facilitates neutral lipid transfer
CC between plasma lipoproteins. The numbering of the targets refers to the
CC position of the cleavage site in full length CETP. The ribozyme then
CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
CC eliminated) thereby preventing the reduction in size density of the high
CC density lipoproteins (HDL), prolonging HDL half life, and therefore
CC increasing HDL levels. The ribozymes can be used to treat conditions
CC associated with abnormal levels of CETP, specifically atherosclerosis,
CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
CC complications of diabetes, transplant, atherectomy and angioplasty
CC restenosis. By inhibiting CETP, the levels of HDL and low density
CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
CC decrease in LDL levels, and a corresponding increase in HDL levels). The
CC ribozymes can also be used diagnostically to study genetic drift and
CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
CC target specific regions of the CETP gene, they have low non-specific
CC activity.
XX
XX Sequence 18 BP; 6 A; 7 C; 2 G; 3 U; 0 other;
SQ

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Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 83.3%; Pred. No. 91;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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QY 363 acatccagatcagccact 380
DB 1 acauccagcaagcagccacu 18

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RESULT 20
AAT50607
ID AAT50607 standard; RNA; 18 BP.
AC AAT50607;
DT 10-MAR-1997 (first entry)
DE Human CETP hairpin ribozyme target sequence #490.

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XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
KW angioplasty restenosis; low density lipoprotein; diabetes; HDL; human;
KW LDL; ss.
XX Homo sapiens.
XX WO9620279-A1.
PN
PD 04-JUL-1996.
XX

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Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 77.8%; Pred. No. 91;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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QY 484 caccactgcctggtgct 501
DB 1 caccacugccugggucg 18

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RESULT 21
AAT50608
ID AAT50608 standard; RNA; 18 BP.
AC AAT50608;
DT 10-MAR-1997 (first entry)
DE Human CETP hairpin ribozyme target sequence #513.

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XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
KW angioplasty restenosis; low density lipoprotein; diabetes; HDL; human;
KW LDL; ss.
XX Homo sapiens.
XX

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peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor; angioplastic restenosis; low density lipoprotein; diabetes; HDL; human; LDL; ss.

AA
OS
Homo sapiens.

AA PN WO9620279-A1.

XX
PD 04-JUL-1996.XX
DE
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11-DEC-1995: 95WO-US16000.

XX
DB 33-DEC-1994. 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC
PA (WARN) WARNER LAMBERT CO.
PA

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XX 1006-3710E3/32

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT - useful for preventing or treating initial development, progression
PT or regression of vascular diseases, esp. familial
PT hypercholesterolaemia

XX
pg
claim 4: page 52: 72pp: English:

AAAT50595-R50642 represent target sequences for the human CYP59A4 ester transfer protein (CETP) halpin ribozymes (see AAT50547-R50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia, familial hypercholesterolaemia, hypofalphalipoproteinemia, vascular complications of diabetes, transplant, atherectomy and angioplastic restenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

XX
CC
Sequence 18 BP: 7 A: 8 C: 1 G: 2 U: 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 88.9%; Pred. No. 91;
Matches 16; Conservative 2; Mismatches 0; Indels

546 acctccagatcaacacac 563

db 1 accuccagaucacacac 18

RESULT 23

RUSSIA
AAT50610

ID AAT50610 standard; RNA; 18 BP.

AC AAT50610;

DT 10-MAR-1997 (first entry)

XX	Human CPTP hairpin ribozyme target sequence #564.
DE	

2

AA PN W09620279-A1.

04-JUL-1996

XX
PF 11-DEC-1995: 95WO-US16000.

XX
PR 23-DEC-1994: 94DS-0363240.XX
PA
(PTRO-) PTROZYME PHARM INC.

PA (RIBU-) RIBOZIME PHARM INC.
PA (WABN) WARNER LAMBERT CO.

Pf Bisgaard C., Couture L., McSwiggen J., Pape M., Stinchcomb D;

XX DB WPT: 1996-321852/32

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT - useful for preventing or treating initial development, progression
PT or regression of vascular diseases, esp. familial
PT hypercholesterolaemia

XX
ps
Claim 4: page 52: 72pp; English.

AAAT50595-T50642 represent target sequences for the human cholesterol ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594). CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer between plasma lipoproteins. The numbering of the targets refers to the position of the cleavage site in full length CETP. The ribozyme then binds to 4-6 nucleotides 5', and a variable number 3' of this site. The ribozymes are able to cleave mRNA from the gene encoding CETP, thereby blocking synthesis and/or expression of the mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway can be inhibited (or eliminated) thereby preventing the reduction in size density of the high density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CETP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia, familial hypercholesterolaemia, hypobetalipoproteinemia, vascular complications of diabetes, transplant, atherectomy and angioplastic stenosis. By inhibiting CETP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CETP mRNA. As the ribozymes target specific regions of the CETP gene, they have low non-specific activity.

Sequence 18 RP: 4 A: 4 C: 3 G: 7 U: 0 other; 50 XX

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 61.1%; Pred. No. 91;
Matches 11; Conservative 7; Mismatches 0; Indels

0v 507 ttgatcagttccattgact 524

09 307 2592222222222222
06 :||:||:||:||:||:
05 1 1112222222222222 18

RESULT 22

RESOLUT
AAT50609

ID AAT50609 standard; RNA; 18 BP.

AAT50609;

DT 10-MAR-1997 (first entry)

Human CETP hairpin ribozyme target sequence #552.

xx Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
xx neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
KW reverse cholesterol transport; high density lipoprotein; therapy; CTRP;
KW familial hypercholesterolaemia; dyslipidaemia; hypopalpalipoproteinaemia;
KW

2

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX Homo sapiens.
 OS
 XX
 PN WO9620279-A1.
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX
 DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 XX - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 PS Claim 4; Page 52; 72pp; English.
 XX
 CC AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, vascular
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, dyslipidaemia,
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 5 A; 6 C; 4 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 83.3%; Pred. NO. 91;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 558 acacacgctgacctgtgt 575
 Db 1 acacacgacgacgacgacg 18
 |||||:|||||:|

RESULT 24
 AAT50611
 ID AAT50611 standard; RNA; 18 BP.
 XX

AC AAT50611;
 XX
 DT 10-MAR-1997 (first entry)
 XX
 DE Human CETP hairpin ribozyme target sequence #567.
 XX
 KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9620279-A1.
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX
 DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 XX - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 PS Claim 4; Page 52; 72pp; English.
 XX
 CC AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, vascular
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, dyslipidaemia,
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 4 A; 6 C; 4 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 77.8%; Pred. NO. 91;
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 561 cacagctgacctgtgtact 578
 Db 1 cacagcugaccugacgac 18
 |||||:|||||:|

QY 585 gagtgcggaccgatgcc 602
 |||:|||||||:||||
 Db 1 gagugcggaccgaugccc 18

 RESULT 26
 AAT50613
 ID AAT50613 standard; RNA; 18 BP.
 XX AC AAT50613;
 XX AC AAT50613;
 XX DT 10-MAR-1997 (first entry)
 XX DE Human CETP hairpin ribozyme target sequence #595.
 XX DE Human CETP hairpin ribozyme target sequence #595.
 KW KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW KW familial hypercholesterolaemia; dyslipidaemia; hypoalipolipoproteinaemia;
 KW KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW KW LDL; ss.
 XX OS Homo sapiens.
 XX OS Homo sapiens.
 PN WO9620279-A1.
 XX PD 04-JUL-1996.
 XX PD 11-DEC-1995; 95WO-US16000.
 XX PF 23-DEC-1994; 94US-0363240.
 XX PR (RIBO-) RIBOZYME PHARM INC.
 XX PA (WARN) WARNER LAMBERT CO.
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX Claim 4; Page 53; 72pp; English.
 PS Claim 4; Page 53; 72pp; English.
 XX AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC familial hypercholesterolaemia, hypoalipolipoproteinaemia, vascular
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX Sequence 18 BP; 3 A; 6 C; 7 G; 2 U; 0 other;
 XX Sequence 18 BP; 3 A; 7 C; 6 G; 2 U; 0 other;
 SQ

RESULT 25
 AAT50612
 ID AAT50612 standard; RNA; 18 BP.
 XX AC AAT50612;
 XX AC AAT50612;
 XX DT 10-MAR-1997 (first entry)
 XX DE Human CETP hairpin ribozyme target sequence #591.
 XX DE Human CETP hairpin ribozyme target sequence #591.
 KW KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW KW familial hypercholesterolaemia; dyslipidaemia; hypoalipolipoproteinaemia;
 KW KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW KW LDL; ss.
 XX OS Homo sapiens.
 XX OS Homo sapiens.
 PN WO9620279-A1.
 XX PD 04-JUL-1996.
 XX PD 11-DEC-1995; 95WO-US16000.
 XX PF 23-DEC-1994; 94US-0363240.
 XX PR (RIBO-) RIBOZYME PHARM INC.
 XX PA (WARN) WARNER LAMBERT CO.
 XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA.
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX Claim 4; Page 53; 72pp; English.
 PS Claim 4; Page 53; 72pp; English.
 XX AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC familial hypercholesterolaemia, hypoalipolipoproteinaemia, vascular
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX Sequence 18 BP; 3 A; 6 C; 7 G; 2 U; 0 other;
 XX Sequence 18 BP; 3 A; 7 C; 6 G; 2 U; 0 other;
 SQ

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 88.9%; Pred. No. 91;
 Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Mon Apr 22 08:31:48 2002

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 88.9%; Pred. No. 91;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
CC target specific regions of the CETP gene, they have low non-specific
CC activity.
XX Sequence 18 BP; 2 A; 8 C; 3 G; 5 U; 0 other;
SQ

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 72.2%; Pred. No. 91;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 598 tgcctgactgctacct 615
Db 1 ugcccugacugcuaccu 18

RESULT 28
AAT50615
ID AAT50615 standard; RNA; 18 BP.
XX AC AAT50615;
XX DT 10-MAR-1997 (first entry)
XX DE Human CETP hairpin ribozyme target sequence #615.
XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
XX reverse cholesterol transport; high density lipoprotein; therapy; CETP;
XX familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
XX peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX LDL; ss.
XX OS Homo sapiens.
XX PN WO9620279-A1.
XX PD 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN) WARNER LAMBERT CO.
XX PI Bisgaard C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX WPI; 1996-321852/32.
XX DR New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX PT - useful for preventing or treating initial development, progression
XX PT or regression of vascular diseases, esp. familial
XX PT hypercholesterolaemia
XX PS Claim 4; Page 53; 72pp; English.
XX CC AAT50595-T50642 represent target sequences for the human cholesterol
XX ester transfer protein (CEP) hairpin ribozymes (see AAT50547-T50594).
XX CETP is a 74 kb glycoprotein that facilitates neutral lipid transfer
XX between plasma lipoproteins. The numbering of the targets refers to the
XX position of the cleavage site in full length CETP. The ribozyme then
XX binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX the reverse cholesterol transport (RCT) pathway can be inhibited (or
XX eliminated) thereby preventing the reduction in size density of the high
XX density lipoproteins (HDL), prolonging HDL half life, and therefore
XX increasing HDL levels. The ribozymes can be used to treat conditions
XX associated with abnormal levels of CETP, specifically atherosclerosis,
XX peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
XX familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
XX complications of diabetes, transplant, atherectomy and angioplastic
XX restenosis. By inhibiting CETP, the levels of HDL and low density
XX lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX decrease in LDL levels, and a corresponding increase in HDL levels). The
XX ribozymes can also be used diagnostically to study genetic drift and

complications of diabetes, transplant, atherectomy and angioplastic restenosis. By inhibiting CTRP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CTRP mRNA. As the ribozymes target specific regions of the CTRP gene, they have low non-specific activity.

Sequence 18 BP: 3 A: 6 C: 2 G: 7 U: 0 other:

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 61.1%; Pred. No. 91;
Matches 11; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 609 gctacctgtctttccata 626
||:|:|:|:|:|:|:|:|:|
pb 1 gcuaaccgucuuuccaua 18

RESULT 29
AAT50616
ID AAT50616 standard: RNA: 18 BP.

AAT50616:

10-MAR-1997 (first entry)

Human CPTP hairpin ribozyme target sequence #630:

Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 reverse cholesterol transport; high density lipoprotein; therapy; CRP;
 familial hypercholesterolemia; dyslipidemia; hypopthalipoproteinemia;
 peripheral vascular disease; hyperbeta1ipoproteinemia; RCT; inhibitor;
 angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 LDL; ss.

Homo sapiens.

W09620279-A1.

04-III.-1996

11-DEC-1995: 05W0-PS16000

23-DEC-1991 0405-0363240

1. SECRET

(WARN) WARNER LAMBERT CO.

Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

WPY: 1996-321852/32.

New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA - useful for preventing or treating initial development, progression or regression of vascular diseases, esp. familial hypercholesterolaemia

Claim A: page 53: 72pp: English.

[illegible]

density lipoproteins (HDL), prolonging HDL half life, and therefore increasing HDL levels. The ribozymes can be used to treat conditions associated with abnormal levels of CERP, specifically atherosclerosis, peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia, familial hypercholesterolaemia, hypoalphalipoproteinemia, vascular complications of diabetes, transplant, atherectomy and angioplastic restenosis. By inhibiting CERP, the levels of HDL and low density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a decrease in LDL levels, and a corresponding increase in HDL levels). The ribozymes can also be used diagnostically to study genetic drift and mutations in diseased cells, and to detect CERP mRNA. As the ribozymes target specific regions of the CERP gene, they have low non-specific activity.

Sequence 18 BP: 4 A: 6 C: 3 G: 5 U: 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 72.2%; Pred. No. 91;
Matches 13; Conservative 5; Mismatches 0; Indels

QY 624 ataagctgctcctgcac 641
|:||||:|:|:|:
bh 1 aaagcgccuccgauc 18

RESULTS 30

RESULT 30
AAT50617
ID AAT50617 standard: RNA: 18 BP.

XX
AC
AA750617:XX
DE 10-MXP-1007 (first entry)

XX

XX
 2000-11-08 08:17

neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
reverse cholesterol transport; high density lipoprotein; therapy; CERP;
familial hypercholesterolaemia; dyslipidaemia; hypocalipoproteinaemia;
peripheral vascular disease; hyperbetalipoproteinemia; RCT; inhibitor;
angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
LDL; SS.

XX
50
Homo sapiens.

XX
DN W09620279-A1-XX
DD
04-III-1996

XX	11	0570	1005	0570-7516000
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XX

XX
XX

PA (KIBO-) KIBOZIME FILMS INC.
PA (WARN) WARNER LAMBERT CO.

XX
PIERCE J. Couture L.
McSwiggan J., Pape M,
Stinchcomb D;

XX
DP. 1006-321852/32

XX	New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
PT	- useful for preventing or treating initial development, progression
PT	or regression of vascular diseases, esp. familial
PT	hypercholesterolaemia
PT	hypercholesterolaemia

XX
pg
claim 4. Page 53. 72pp: English.

XX
CC AAT50595-T50642 represent target sequences for the human cholesterol
CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
CC between plasma lipoproteins. The numbering of the targets refers to the
CC position of the cleavage site in full length CETP. The ribozyme then

CC binds to 4-6 nucleotides 5', and a variable number 3' of this site.
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral hypercholesterolaemia, hypoalphalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplasty
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 6 A; 5 C; 3 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 77.8%; Pred. No. 91;
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

OY 669 tcaagcagctgttcacaa 686
 Db 1 ucaagcagcuguacacaa 18
 :|||||:|||||

RESULT 31
 AAT50618
 ID AAT50618 standard; RNA; 18 BP.
 AC AAT50618;
 XX
 DT 10-MAR-1997 (first entry)
 XX
 DE Human CETP hairpin ribozyme target sequence #678.
 XX

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

OS Homo sapiens.
 XX WO9620279-A1.
 XX 04-JUL-1996.
 XX 11-DEC-1995; 95WO-0516000.
 XX 23-DEC-1994; 94US-0363240.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX

PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 PT hypercholesterolaemia
 XX
 PS Claim 4; Page 53; 72pp; English.
 XX

CC AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral hypercholesterolaemia, hypoalphalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplasty
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 6 A; 4 C; 3 G; 5 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 72.2%; Pred. No. 91;
 Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

OY 672 agcagctgttcacaaatt 689
 Db 1 agcagcuguacacaaau 18
 :|||||:|||||

RESULT 32
 AAT50619
 ID AAT50619 standard; RNA; 18 BP.
 AC AAT50619;
 XX
 DT 10-MAR-1997 (first entry)
 XX
 DE Human CETP hairpin ribozyme target sequence #726.
 XX

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

OS Homo sapiens.
 XX WO9620279-A1.
 XX 04-JUL-1996.
 XX 11-DEC-1995; 95WO-US16000.
 XX 23-DEC-1994; 94US-0363240.
 XX (RIBO-) RIBOZYME PHARM INC.
 XX (WARN) WARNER LAMBERT CO.
 XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX WPI; 1996-321852/32.
 XX

PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT hypercholesterolaemia
 XX
 PS Claim 4; Page 53; 72pp; English.
 XX

PT or regression of vascular diseases, esp. familial
 XX hypercholesterolaemia

PS Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypopalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.

XX Sequence 18 BP; 7 A; 3 C; 6 G; 2 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 88.9%; Pred. No. 91;
 Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 720 agggacagatctgcaag 737
 Db |||||1111111111111111
 1 agggacagcaugcacaag 18

RESULT 33

AAT50620

ID AAT50620 standard; RNA; 18 BP.

XX AAT50620;

XX 10-MAR-1997 (first entry)

XX Human CETP hairpin ribozyme target sequence #766.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

XX Homo sapiens.

OS WO9620279-A1.

XX 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.

XX (RIBO-) RIBOZYME PHARM INC.

PA (WARN) WARNER LAMBERT CO.

XX Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX WPI; 1996-321852/32.

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 PT - useful for preventing or treating initial development, progression
 PT or regression of vascular diseases, esp. familial
 XX hypercholesterolaemia

PS Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypopalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.

XX Sequence 18 BP; 3 A; 5 C; 4 G; 6 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 66.7%; Pred. No. 91;
 Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 760 catggcgattttgtcca 777
 Db ||:|||||:|||||
 1 cauggcgcauuuugucca 18

RESULT 34

AAT50621

ID AAT50621 standard; RNA; 18 BP.

XX AAT50621;

XX 10-MAR-1997 (first entry)

XX Human CETP hairpin ribozyme target sequence #802.

XX Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypopalipoproteinaemia;
 KW peripheral hypercholesterolaemia; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

XX Homo sapiens.

OS WO9620279-A1.

XX 04-JUL-1996.

XX 11-DEC-1995; 95WO-US16000.

XX 23-DEC-1994; 94US-0363240.


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XX OS Homo sapiens.
XX KW WO9620279-A1.
XX PN
XX KW 04-JUL-1996.
XX PD
XX KW 11-DEC-1995; 95WO-US16000.
XX PF
XX KW 23-DEC-1994; 94US-0363240.
XX PR
XX KW (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI
XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX DR WPI; 1996-321852/32.
XX DR
XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX PT - useful for preventing or treating initial development, progression
XX PT or regression of vascular diseases, esp. familial
XX PT hypercholesterolaemia
XX PS
XX PS Claim 4; Page 53; 72pp; English.
XX CC AAT50595-r50642 represent target sequences for the human cholesterol
XX CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-r50594).
XX CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX CC between plasma lipoproteins. The numbering of the targets refers to the
XX CC position of the cleavage site in full length CETP. The ribozyme then
XX CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
XX CC eliminated) thereby preventing the reduction in size density of the high
XX CC density lipoproteins (HDL), prolonging HDL half life, and therefore
XX CC increasing HDL levels. The ribozymes can be used to treat conditions
XX CC associated with abnormal levels of CETP, specifically atherosclerosis,
XX CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
XX CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
XX CC complications of diabetes, transplant, atherectomy and angioplasty
XX CC restenosis. By inhibiting CETP, the levels of HDL and low density
XX CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX CC decrease in LDL levels, and a corresponding increase in HDL levels). The
XX CC ribozymes can also be used diagnostically to study genetic drift and
XX CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
XX CC target specific regions of the CETP gene, they have low non-specific
XX CC activity.
XX SQ Sequence 18 BP; 3 A; 6 C; 6 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 83.3%; Pred. NO. 91;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 936 ccacactgctgggggact 953
Db 1 ccacacugcgggggacu 18
|||||:|||||:|

RESULT 37
AAT50624
ID AAT50624 standard; RNA; 18 BP.
XX AC
XX AAT50624;
XX DT 10-MAR-1997 (first entry)
DE Human CETP hairpin ribozyme target sequence #1025.
XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;

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KW KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
KW KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
KW KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
KW KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX KW LDL; ss.
XX OS Homo sapiens.
XX KW WO9620279-A1.
XX PN
XX KW 04-JUL-1996.
XX PD
XX KW 11-DEC-1995; 95WO-US16000.
XX PF
XX KW 23-DEC-1994; 94US-0363240.
XX PR
XX KW (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI
XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX DR WPI; 1996-321852/32.
XX DR
XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX PT - useful for preventing or treating initial development, progression
XX PT or regression of vascular diseases, esp. familial
XX PT hypercholesterolaemia
XX PS
XX PS Claim 4; Page 53; 72pp; English.
XX CC AAT50595-r50642 represent target sequences for the human cholesterol
XX CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-r50594).
XX CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX CC between plasma lipoproteins. The numbering of the targets refers to the
XX CC position of the cleavage site in full length CETP. The ribozyme then
XX CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
XX CC eliminated) thereby preventing the reduction in size density of the high
XX CC density lipoproteins (HDL), prolonging HDL half life, and therefore
XX CC increasing HDL levels. The ribozymes can be used to treat conditions
XX CC associated with abnormal levels of CETP, specifically atherosclerosis,
XX CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
XX CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
XX CC complications of diabetes, transplant, atherectomy and angioplasty
XX CC restenosis. By inhibiting CETP, the levels of HDL and low density
XX CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX CC decrease in LDL levels, and a corresponding increase in HDL levels). The
XX CC ribozymes can also be used diagnostically to study genetic drift and
XX CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
XX CC target specific regions of the CETP gene, they have low non-specific
XX CC activity.
XX SQ Sequence 18 BP; 2 A; 7 C; 5 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 77.8%; Pred. NO. 91;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1019 gatggcgctcatgctc 1036
Db 1 gauggcgcgcucguc 18
|||||:|||||:|

RESULT 38
AAT50625
ID AAT50625 standard; RNA; 18 BP.
XX AC
XX AAT50625;
XX DT 10-MAR-1997 (first entry)

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XX DE XX
XX KW Human CETP hairpin ribozyme target sequence #1037.
XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
XX KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
XX KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
XX KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
XX KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
XX KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
XX KW LDL; ss.
XX OS Homo sapiens.
XX PN WO9620279-A1.
XX XX 04-JUL-1996.
XX PF 11-DEC-1995; 95WO-US16000.
XX PR 23-DEC-1994; 94US-0363240.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (WARN ) WARNER LAMBERT CO.
XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
XX DR WPI; 1996-321852/32.
XX XX
XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
XX PT - useful for preventing or treating initial development, progression
XX PT or regression of vascular diseases, esp. familial
XX PT hypercholesterolaemia
XX PS Claim 4; Page 53; 72pp; English.
XX CC AAT50595-T50642 represent target sequences for the human cholesterol
XX CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
XX CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
XX CC between plasma lipoproteins. The numbering of the targets refers to the
XX CC position of the cleavage site in full length CETP. The ribozyme then
XX CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
XX CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
XX CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
XX CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
XX CC eliminated) thereby preventing the reduction in size density of the high
XX CC density lipoproteins (HDL), prolonging HDL half life, and therefore
XX CC increasing HDL levels. The ribozymes can be used to treat conditions
XX CC associated with abnormal levels of CETP, specifically atherosclerosis,
XX CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
XX CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
XX CC complications of diabetes, transplant, atherectomy and angioplastic
XX CC restenosis. By inhibiting CETP, the levels of HDL and low density
XX CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
XX CC decrease in LDL levels, and a corresponding increase in HDL levels). The
XX CC ribozymes can also be used diagnostically to study genetic drift and
XX CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
XX CC target specific regions of the CETP gene, they have low non-specific
XX CC activity.
XX XX
XX SQ Sequence 18 BP; 4 A; 4 C; 6 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 77.8%; Pred. No. 91;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1031 atgctcagcctgatgga 1048
|:|||||:|||||
1 augcucagcugaugga 18

RESULT 39
AAT50743

Query Match 1.0%; Score 18; DB 17; Length 18;
Best Local Similarity 72.2%; Pred. No. 91;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1575 agcacctctggtgatt 1592
|||||:|||||:|||||

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ID AAT50743 standard; RNA; 18 BP.

XX AC AAT50743;

XX DT 07-MAR-1997 (first entry)

XX DE Rabbit CETP hairpin ribozyme target sequence #1463.

XX KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; rabbit;
 KW LDL; ss.

XX OS Oryctolagus cuniculus.

XX PN WO9620279-A1.

XX XX 04-JUL-1996.

XX PF 11-DEC-1995; 95WO-US16000.

XX PR 23-DEC-1994; 94US-0363240.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (WARN) WARNER LAMBERT CO.

XX PI Bisgaier C, Couture L, McSwiggen J, Pape M, Stinchcomb D;

XX DR WPI; 1996-321852/32.

XX PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 - useful for preventing or treating initial development, progression
 or regression of vascular diseases, esp. familial
 hypercholesterolaemia

XX PS Claim 4; Page 56; 72pp; English.

XX CC AAT50699-T50754 represent target sequences for the rabbit cholesterol
 ester transfer protein (CETP) hairpin ribozymes (see AAT50643-T50698).
 CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 between plasma lipoproteins. The numbering of the targets refers to the
 position of the cleavage site in full length CETP. The ribozyme then
 binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 the reverse cholesterol transport (RCT) pathway can be inhibited (or
 eliminated) thereby preventing the reduction in size density of the high
 density lipoproteins (HDL), prolonging HDL half life, and therefore
 increasing HDL levels. The ribozymes can be used to treat conditions
 associated with abnormal levels of CETP, specifically atherosclerosis,
 peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
 complications of diabetes, transplant, atherectomy and angioplastic
 restenosis. By inhibiting CETP, the levels of HDL and low density
 lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 decrease in LDL levels, and a corresponding increase in HDL levels). The
 ribozymes can also be used diagnostically to study genetic drift and
 mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 target specific regions of the CETP gene, they have low non-specific
 activity.

XX SQ Sequence 18 BP; 3 A; 4 C; 6 G; 5 U; 0 other;

Query Match

Best Local Similarity 1.0%; Score 18; DB 17; Length 18;

Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1575 agcacctctggtgatt 1592

|||||:|||||:|||||

CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 1 A; 8 C; 6 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 83.3%; Pred. No. 91;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1115 gtcggcggtccaccgc 1132
 I:|||||:|||||
 Db 1 gucggcggtccaccgc 18

RESULT 42
 AAT50628
 ID AAT50628 standard; RNA; 18 BP.
 XX
 AC AAT50628;
 XX
 DT 10-MAR-1997 (first entry)
 DE Human CETP hairpin ribozyme target sequence #1147.
 XX
 KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; athrectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypolipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO9620279-A1.
 XX
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX
 DR WPI; 1996-321852/32.
 XX
 PS Claim 4; Page 53; 72pp; English.
 XX
 CC AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC familial hypercholesterolaemia, hypolipoproteinaemia, dyslipidaemia,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, vascular
 CC complications of diabetes, transplant, athrectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a

CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 3 A; 8 C; 3 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 77.8%; Pred. No. 91;
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1141 agtcacggctccactgcct 1158
 I:|||||:|||||
 Db 1 agucacggctccactgcct 18

RESULT 43
 AAT50629
 ID AAT50629 standard; RNA; 18 BP.
 XX
 AC AAT50629;
 XX
 DT 10-MAR-1997 (first entry)
 DE Human CETP hairpin ribozyme target sequence #1154.
 XX
 KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; athrectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypolipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO9620279-A1.
 XX
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX
 DR WPI; 1996-321852/32.
 XX
 PS Claim 4; Page 53; 72pp; English.
 XX
 CC AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
 CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC familial hypercholesterolaemia, hypolipoproteinaemia, dyslipidaemia,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, vascular
 CC complications of diabetes, transplant, athrectomy and angioplastic
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a

CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplasty
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 4 A; 6 C; 4 G; 4 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 77.8%; Pred. No. 91;
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
 QY 1148 gtccactgctcgaagatg 1165
 Db 1 guccacugccuagaug 18
 |||||:|||||:

RESULT 44
 AAT50630
 ID AAT50630 standard; RNA; 18 BP.
 AC AAT50630;
 XX
 DT 10-MAR-1997 (first entry)
 XX
 DE Human CETP hairpin ribozyme target sequence #1240.
 XX

KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

XX Homo sapiens.
 OS
 PN WO9620279-A1.
 XX
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX
 DR WPI; 1996-321852/32.
 XX

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 XX - useful for preventing or treating initial development, progression
 XX or regression of vascular diseases, esp. familial
 XX hypercholesterolaemia
 XX
 PS Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer
 CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
 CC binds to 4-6 nucleotides 5', and a variable number 3' of this site. The
 CC ribozymes are able to cleave mRNA from the gene encoding CETP, thereby
 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,

CC the reverse cholesterol transport (RCT) pathway can be inhibited (or
 CC eliminated) thereby preventing the reduction in size density of the high
 CC density lipoproteins (HDL), prolonging HDL half life, and therefore
 CC increasing HDL levels. The ribozymes can be used to treat conditions
 CC associated with abnormal levels of CETP, specifically atherosclerosis,
 CC peripheral vascular disease, hyperbetalipoproteinaemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypoalphalipoproteinaemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplasty
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
 CC ribozymes can also be used diagnostically to study genetic drift and
 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.
 XX
 SQ Sequence 18 BP; 7 A; 8 C; 3 G; 0 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 100.0%; Pred. No. 91;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1234 acgccagaccagcaaca 1251
 Db 1 acgccagaccagcaaca 18
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RESULT 45
 AAT50631
 ID AAT50631 standard; RNA; 18 BP.
 AC AAT50631;
 XX
 DT 10-MAR-1997 (first entry)
 XX
 DE Human CETP hairpin ribozyme target sequence #1291.
 XX

KW Hairpin ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CETP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypoalphalipoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic restenosis; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.

XX Homo sapiens.
 OS
 PN WO9620279-A1.
 XX
 PD 04-JUL-1996.
 XX
 PF 11-DEC-1995; 95WO-US16000.
 XX
 PR 23-DEC-1994; 94US-0363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Bisgaler C, Couture L, McSwiggen J, Pape M, Stinchcomb D;
 XX
 DR WPI; 1996-321852/32.
 XX

XX New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA
 XX - useful for preventing or treating initial development, progression
 XX or regression of vascular diseases, esp. familial
 XX hypercholesterolaemia
 XX
 PS Claim 4; Page 53; 72pp; English.

XX AAT50595-T50642 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hairpin ribozymes (see AAT50547-T50594).
 CC CETP is a 74 kD glycoprotein that facilitates neutral lipid transfer

CC between plasma lipoproteins. The numbering of the targets refers to the
 CC position of the cleavage site in full length CETP. The ribozyme then
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 CC blocking synthesis and/or expression of the mRNA. By inhibiting CETP,
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 CC peripheral vascular disease, hyperbetalipoproteinemia, dyslipidaemia,
 CC familial hypercholesterolaemia, hypobetalipoproteinemia, vascular
 CC complications of diabetes, transplant, atherectomy and angioplasty
 CC restenosis. By inhibiting CETP, the levels of HDL and low density
 CC lipoproteins (LDL), and the HDL:LDL ratio are favourably altered (a
 CC decrease in LDL levels, and a corresponding increase in HDL levels). The
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 CC mutations in diseased cells, and to detect CETP mRNA. As the ribozymes
 CC target specific regions of the CETP gene, they have low non-specific
 CC activity.

XX
 SQ Sequence 18 BP; 3 A; 8 C; 4 G; 3 U; 0 other;

Query Match 1.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 83.3%; Pred. No. 91;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
 Qy 1285 gactaccgtccaggccctc 1302
 Db 1 gacuaaccgucaggccuc 18
 |||:||||:|||||

Search completed: April 20, 2002, 01:13:33
 Job time: 4465 sec

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: April 19, 2002, 22:03:21 ; Search time 92.54 Seconds
(without alignments)
4373.419 Million cell updates/sec

Title: US-09-925-139-3
Perfect score: 1787
Sequence: 1 gtgaatctctggggccagga.....ggcattaaagtgtgtatcc 1787

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 351203 seqs, 113238999 residues

Word size : 0

Total number of hits satisfying chosen parameters: 495388

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : Issued_Patents_NA.*
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2: /cgn2_6/ptodata/2/ina/5B.COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PTUS.COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	2.6	46	1 US-08-171-389-89	Sequence 89, Appl
2	46	2.6	46	1 US-08-123-936-89	Sequence 89, Appl
3	46	2.6	46	2 US-08-475-228A-89	Sequence 89, Appl
4	46	2.6	46	3 US-08-482-080A-89	Sequence 89, Appl
5	46	2.6	46	5 PCT-US93-12388-89	Sequence 89, Appl
6	18	1.0	18	1 US-08-363-240A-1078	Sequence 1078, Ap
7	18	1.0	18	1 US-08-363-240A-1079	Sequence 1079, Ap
8	18	1.0	18	1 US-08-363-240A-1080	Sequence 1080, Ap
9	18	1.0	18	1 US-08-363-240A-1081	Sequence 1081, Ap
10	18	1.0	18	1 US-08-363-240A-1082	Sequence 1082, Ap
11	18	1.0	18	1 US-08-363-240A-1083	Sequence 1083, Ap
12	18	1.0	18	1 US-08-363-240A-1084	Sequence 1084, Ap
13	18	1.0	18	1 US-08-363-240A-1085	Sequence 1085, Ap
14	18	1.0	18	1 US-08-363-240A-1086	Sequence 1086, Ap
15	18	1.0	18	1 US-08-363-240A-1087	Sequence 1087, Ap
16	18	1.0	18	1 US-08-363-240A-1088	Sequence 1088, Ap
17	18	1.0	18	1 US-08-363-240A-1089	Sequence 1089, Ap
18	18	1.0	18	1 US-08-363-240A-1090	Sequence 1090, Ap
19	18	1.0	18	1 US-08-363-240A-1091	Sequence 1091, Ap
20	18	1.0	18	1 US-08-363-240A-1092	Sequence 1092, Ap
21	18	1.0	18	1 US-08-363-240A-1093	Sequence 1093, Ap
22	18	1.0	18	1 US-08-363-240A-1094	Sequence 1094, Ap
23	18	1.0	18	1 US-08-363-240A-1095	Sequence 1095, Ap
24	18	1.0	18	1 US-08-363-240A-1096	Sequence 1096, Ap
25	18	1.0	18	1 US-08-363-240A-1097	Sequence 1097, Ap
26	18	1.0	18	1 US-08-363-240A-1098	Sequence 1098, Ap
27	18	1.0	18	1 US-08-363-240A-1099	Sequence 1099, Ap

28	18	1.0	18	1 US-08-363-240A-1100	Sequence 1100, Ap
29	18	1.0	18	1 US-08-363-240A-1101	Sequence 1101, Ap
30	18	1.0	18	1 US-08-363-240A-1102	Sequence 1102, Ap
31	18	1.0	18	1 US-08-363-240A-1103	Sequence 1103, Ap
32	18	1.0	18	1 US-08-363-240A-1104	Sequence 1104, Ap
33	18	1.0	18	1 US-08-363-240A-1105	Sequence 1105, Ap
34	18	1.0	18	1 US-08-363-240A-1106	Sequence 1106, Ap
35	18	1.0	18	1 US-08-363-240A-1107	Sequence 1107, Ap
36	18	1.0	18	1 US-08-363-240A-1108	Sequence 1108, Ap
37	18	1.0	18	1 US-08-363-240A-1109	Sequence 1109, Ap
38	18	1.0	18	1 US-08-363-240A-1110	Sequence 1110, Ap
39	18	1.0	18	1 US-08-363-240A-1111	Sequence 1111, Ap
40	18	1.0	18	1 US-08-363-240A-1112	Sequence 1112, Ap
41	18	1.0	18	1 US-08-363-240A-1113	Sequence 1113, Ap
42	18	1.0	18	1 US-08-363-240A-1114	Sequence 1114, Ap
43	18	1.0	18	1 US-08-363-240A-1115	Sequence 1115, Ap
44	18	1.0	18	1 US-08-363-240A-1116	Sequence 1116, Ap
45	18	1.0	18	1 US-08-363-240A-1117	Sequence 1117, Ap

ALIGNMENTS

RESULT 1
US-08-171-389-89
; Sequence 89, Application US/08171389
; Patent No. 5578444
; GENERAL INFORMATION:
; APPLICANT: Edwards, Cynthia A.
; APPLICANT: Cantor, Charles R.
; APPLICANT: Andrews, Beth M.
; APPLICANT: Turin, Lisa M.
; APPLICANT: Fry, Kirk E.
; TITLE OF INVENTION: Sequence-Directed DNA Binding
; NUMBER OF INVENTIONS: 641
; NUMBER OF SEQUENCES: 641
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genelabs Technologies, Inc.
; STREET: 505 Penobscot Drive
; CITY: Redwood City
; STATE: CA
; COUNTRY: USA
; ZIP: 94063
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/171,389
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/123,936
; FILING DATE: 17-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/996,783
; FILING DATE: 23-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/723,618
; FILING DATE: 27-JUN-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/081,070
; FILING DATE: 22-JUN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Fabian, Gary R.
; REGISTRATION NUMBER: 33,875
; REFERENCE/DOCKET NUMBER: 4600-0175/G19p3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 324-0880
; TELEFAX: (415) 324-0960
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human cholesteryl ester transferase
INDIVIDUAL ISOLATE: protein (CETP) gene
US-08-171-389-89

Query Match 2.6%; Score 46; DB 1; Length 46;
Best Local Similarity 100.0%; Pred. No. 6.6e-13;
Matches 46; Conservative 0; Mismatches 0; Indels 0;

QY 53 gtgggggctggcgacatacatatcacggctccaggtgaacggc 98
|||||
DB 1 GTGGGGCTGGCGGACATACATATACGGGCTCCAGGCTGAACGCC 46

RESULT 2

US-08-123-936-89
Sequence 89, Application US/08123936
Patent No. 5726014

GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.

TITLE OF INVENTION: Screening Assay for the Detection of
TITLE OF INVENTION: DNA-Binding Molecules

NUMBER OF SEQUENCES: 640

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.

STREET: 505 Penobscot Drive

CITY: Redwood City

STATE: CA

COUNTRY: USA

ZIP: 94063

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/123,936

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/996,783

FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/723,618

FILING DATE: 27-JUN-1991

ATTORNEY/AGENT INFORMATION:

NAME: Fabian, Gary R.

REGISTRATION NUMBER: 33,875

REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 324-0880

TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 89:

SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human cholesteryl ester transferase

INDIVIDUAL ISOLATE: protein (CETP) gene

US-08-123-936-89

Query Match 2.6%; Score 46; DB 1; Length 46;
Best Local Similarity 100.0%; Pred. No. 6.6e-13;
Matches 46; Conservative 0; Mismatches 0; Indels 0;

QY 53 gtgggggctggcgacatacatatcacggctccaggtgaacggc 98
|||||
DB 1 GTGGGGCTGGCGGACATACATATACGGGCTCCAGGCTGAACGCC 46

RESULT 3

US-08-475-228A-89

Sequence 89, Application US/08475228A

Patent No. 5869241

GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.

APPLICANT: Cantor, Charles R.

APPLICANT: Andrews, Beth M.

APPLICANT: Turin, Lisa M.

APPLICANT: Fry, Kirk E.

TITLE OF INVENTION: Sequence-Directed DNA Binding

TITLE OF INVENTION: Molecules, Compositions and Methods

NUMBER OF SEQUENCES: 664

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genelabs Technologies, Inc.

STREET: 505 Penobscot Drive

CITY: Redwood City

STATE: CA

COUNTRY: USA

ZIP: 94063

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/475,228A

FILING DATE: 06-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/123,936

FILING DATE: 17-SEP-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/996,783

FILING DATE: 23-DEC-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/723,618

FILING DATE: 27-JUN-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/081,070

FILING DATE: 22-JUN-1993

ATTORNEY/AGENT INFORMATION:

NAME: Stratford, Carol A.

REGISTRATION NUMBER: 34,444

REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 324-0880

TELEFAX: (415) 324-0960

INFORMATION FOR SEQ ID NO: 89:

SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)

HYPOTHETICAL: NO

ORIGINAL SOURCE:

INDIVIDUAL ISOLATE: Human cholesteryl ester transferase

INDIVIDUAL ISOLATE: protein (CETP) gene

US-08-475-228A-89

Query Match 2.6%; Score 46; DB 2; Length 46;
Best Local Similarity 100.0%; Pred. No. 6.6e-13;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 gtgggggctggcgacacatacatatcggtccaggctgaacggc 98
|||||
Db 1 GTGGGGCTGGCGGACACATACATACGGCTCCAGGCTGAACGGC 46

RESULT 4
US-08-482-080A-89
; Sequence 89, Application US/08482080A
; Patent No. 6010849
; GENERAL INFORMATION:
; APPLICANT: Edwards, Cynthia A.
; APPLICANT: Cantor, Charles R.
; APPLICANT: Andrews, Beth M.
; APPLICANT: Turin, Lisa M.
; APPLICANT: Fry, Kirk E.
; TITLE OF INVENTION: Sequence-Directed DNA Binding
; TITLE OF INVENTION: Molecules, Compositions and Methods
; NUMBER OF SEQUENCES: 664
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genelabs Technologies, Inc.
; STREET: 505 Penobscot Drive
; CITY: Redwood City
; STATE: CA
; COUNTRY: USA
; ZIP: 94063
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/482,080A
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/171,389
; FILING DATE: 20-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/123,936
; FILING DATE: 17-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/996,783
; FILING DATE: 23-DEC-1992
; APPLICATION DATA:
; FILING DATE: 27-JUN-1991
; APPLICATION NUMBER: US 08/081,070
; FILING DATE: 22-JUN-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Brady, John F.
; REGISTRATION NUMBER: 39,118
; REFERENCE/DOCKET NUMBER: 4600-0175.20/G19P3D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 324-0880
; TELEFAX: (650) 324-0960
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 46 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: Human cholesterol ester transferase
; INDIVIDUAL ISOLATE: protein (CETP) gene

US-08-482-080A-89

Query Match 2.6%; Score 46; DB 3; Length 46;
Best Local Similarity 100.0%; Pred. No. 6.6e-13;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 gtgggggctggcgacacatacatatcggtccaggctgaacggc 98
|||||
Db 1 GTGGGGCTGGCGGACACATACATACGGCTCCAGGCTGAACGGC 46

RESULT 5
PCT-US93-12388-89
; Sequence 89, Application PC/TUS9312388
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Sequence-Directed DNA Binding
; TITLE OF INVENTION: Molecules, Compositions and Methods
; NUMBER OF SEQUENCES: 641
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genelabs Technologies, Inc.
; STREET: 505 Penobscot Drive
; CITY: Redwood City
; STATE: CA
; COUNTRY: USA
; ZIP: 94063
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12388
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/123,936
; FILING DATE: 17-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/996,783
; FILING DATE: 23-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Fabian, Gary R.
; REGISTRATION NUMBER: 33,875
; REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 324-0880
; TELEFAX: (415) 324-0960
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 46 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: Human cholesterol ester transferase
; INDIVIDUAL ISOLATE: protein (CETP) gene
; PCT-US93-12388-89

Query Match 2.6%; Score 46; DB 5; Length 46;
Best Local Similarity 100.0%; Pred. No. 6.6e-13;
Matches 46; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 53 gtgggggctggcgacacatacatatcggtccaggctgaacggc 98
|||||
Db 1 GTGGGGCTGGCGGACACATACATACGGCTCCAGGCTGAACGGC 46

RESULT 6
US-08-363-240A-1078
; Sequence 1078, Application US/08363240A
; Patent No. 5705388

GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
INFORMATION FOR SEQ ID NO: 1078:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1078

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 21 agaccctgtgcccgaa 38
DB 1 AGACCCGCGCCCGAA 18
|||||:|||||

RESULT 7
US-08-363-240A-1079
Sequence 1079, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street

STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
INFORMATION FOR SEQ ID NO: 1079:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1079

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 24 cctgtgtcccggaagag 41
DB 1 CCCGCGCGCCGGAAGAG 18
|||||:|||||

RESULT 8
US-08-363-240A-1080
Sequence 1080, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A

;; FILING DATE: December 23, 1994
;; PRIOR APPLICATION DATA:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Warburg, Richard
;; REGISTRATION NUMBER: 32,327
;; REFERENCE/DOCKET NUMBER: 210/096
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (213) 489-1600
;; TELEFAX: (213) 955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 1080:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 18 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-08-363-240A-1080

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 90 ctgaacggtctggggccac 107
|:|||||:|||||
Db 1 CUGAACGGCUGGGCCAC 18

RESULT 9
US-08-363-240A-1081
; Sequence 1081, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: U.S.A.
; ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1081:

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 139 tgccacgtcctgacct 156

;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 18 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-08-363-240A-1081

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 26;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 113 caccactgcctgataacc 130
|:|||||:|||||
Db 1 CACCACUGCCUGAUACC 18

RESULT 10
US-08-363-240A-1082
; Sequence 1082, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; STATE: Los Angeles
; COUNTRY: California
; COUNTRY: U.S.A.
; ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1082:

;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 18 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-08-363-240A-1082

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Db 1 UGCCACAGCCGACCCU 18

RESULT 11

US-08-363-240A-1083

Sequence 1083, Application US/08363240A

Patent No. 5705388

GENERAL INFORMATION:

APPLICANT: Couture, Larry

APPLICANT: McSwiggen, James

APPLICANT: Bisgaier, Charles

APPLICANT: Pape, Michael

TITLE OF INVENTION: METHOD AND REAGENT FOR PREVENTION, INHIBITION OF

TITLE OF INVENTION: PROGRESSION AND REGRESSION

TITLE OF INVENTION: OF VASCULAR DISEASES

NUMBER OF SEQUENCES: 1243

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

CITY: Suite 4700

STATE: Los Angeles

COUNTRY: California

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage

COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/363,240A

FILING DATE: December 23, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 210/096

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1083:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-363-240A-1083

Query Match 1.0%; Score 18; DB 1; Length 18;

Best Local Similarity 83.3%; Pred. No. 26;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 144 cagtcctgacctggccc 161

Db 1 CAGUCCGACCCGCCCC 18

RESULT 12

US-08-363-240A-1084

Sequence 1084, Application US/08363240A

Patent No. 5705388

GENERAL INFORMATION:

APPLICANT: Couture, Larry

APPLICANT: McSwiggen, James

APPLICANT: Bisgaier, Charles

APPLICANT: Pape, Michael

TITLE OF INVENTION: METHOD AND REAGENT FOR PREVENTION, INHIBITION OF

TITLE OF INVENTION: PROGRESSION AND REGRESSION

TITLE OF INVENTION: OF VASCULAR DISEASES

NUMBER OF SEQUENCES: 1243

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

CITY: Suite 4700

STATE: Los Angeles

COUNTRY: California

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage

COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/363,240A

FILING DATE: December 23, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 210/096

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1084:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-363-240A-1084

Query Match 1.0%; Score 18; DB 1; Length 18;

Best Local Similarity 83.3%; Pred. No. 26;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 144 cagtcctgacctggccc 161

Db 1 CAGUCCGACCCGCCCC 18

RESULT 13

US-08-363-240A-1085

Sequence 1085, Application US/08363240A

Patent No. 5705388

GENERAL INFORMATION:

APPLICANT: Couture, Larry

APPLICANT: McSwiggen, James

APPLICANT: Bisgaier, Charles

APPLICANT: Pape, Michael

TITLE OF INVENTION: METHOD AND REAGENT FOR PREVENTION, INHIBITION OF

TITLE OF INVENTION: PROGRESSION AND REGRESSION

TITLE OF INVENTION: OF VASCULAR DISEASES

NUMBER OF SEQUENCES: 1243

CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon

STREET: 633 West Fifth Street

CITY: Suite 4700

STATE: Los Angeles

COUNTRY: California

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

MEDIUM TYPE: storage

COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0

SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/363,240A

FILING DATE: December 23, 1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 210/096

TELECOMMUNICATION INFORMATION:

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1085:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-363-240A-1085

Query Match 1.0%; Score 18; DB 1; Length 18;

Best Local Similarity 77.8%; Pred. No. 26;

Matches 14; Conservative 4; Mismatches 0;

QY 156 tggccctgtgtggcaatg 173

Db 1 UGGCCCGCCGCGGCGCAUG 18

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1086:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1085

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 26;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
QY 176 catgctgtctcctcaagc 193
DB 1 CAUGCCUGCCCAAGGC 18

RESULT 14
US-08-363-240A-1086
Sequence 1086, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaler, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
TITLE OF INVENTION: OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1086:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1086

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;
QY 229 caagcctgcctcctcgtt 246
DB 1 CAAGCCUGCCCUCCUGGU 18

RESULT 15
US-08-363-240A-1087
Sequence 1087, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaler, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
TITLE OF INVENTION: OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1087:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-363-240A-1087

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 270 tgaaccagaccgcttcac 287
Db 1 UGAUCCAGACGCCUCC 18

RESULT 16

US-08-363-240A-1088
Sequence 1088, Application US/08363240A
Patent No. 5705388

GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
TITLE OF INVENTION: OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
CITY: California
COUNTRY: U.S.A.
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1088:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-363-240A-1088

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 274 ccagaccgcttcacg 291
Db 1 CCAGACGCCUCCAGC 18

RESULT 17

US-08-363-240A-1089
Sequence 1089, Application US/08363240A
Patent No. 5705388

GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
TITLE OF INVENTION: OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:

ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
STATE: Los Angeles
CITY: California
COUNTRY: U.S.A.
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Warburg, Richard

REGISTRATION NUMBER: 32,327

REFERENCE/DOCKET NUMBER: 210/096

TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440

TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1089:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-363-240A-1089

Query Match

Best Local Similarity 1.0%; Score 18; DB 1; Length 18;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 363 acatccagatcagccact 380

Db 1 ACAUCCAGACGCCACU 18

RESULT 18

US-08-363-240A-1090
Sequence 1090, Application US/08363240A
Patent No. 5705388

GENERAL INFORMATION:

APPLICANT: Couture, Larry

APPLICANT: McSwiggen, James

APPLICANT: Bisgaier, Charles

APPLICANT: Pape, Michael

TITLE OF INVENTION: METHOD AND REAGENT FOR

TITLE OF INVENTION: PREVENTION, INHIBITION OF

TITLE OF INVENTION: PROGRESSION AND REGRESSION

TITLE OF INVENTION: OF VASCULAR DISEASES

NUMBER OF SEQUENCES: 1243

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Lyon & Lyon
;; STREET: 633 West Fifth Street
;; CITY: Los Angeles
;; STATE: California
;; COUNTRY: U.S.A.
;; ZIP: 90071
;;
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;; MEDIUM TYPE: storage
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: IBM P.C. DOS 5.0
;; SOFTWARE: Word Perfect 5.1
;;
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/363,240A
;; FILING DATE: December 23, 1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Warburg, Richard
;; REGISTRATION NUMBER: 32,327
;; REFERENCE/DOCKET NUMBER: 210/096
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (213) 489-1600
;; TELEFAX: (213) 955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 1090:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 18 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;;
US-08-363-240A-1090

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Oy 484 caccactgcctgtgctgct 501
Db 1 CACCACUGCCUGGUGCU 18

RESULT 19
US-08-363-240A-1091
; Sequence 1091, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0

;; SOFTWARE: Word Perfect 5.1
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/363,240A
;; FILING DATE: December 23, 1994
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER:
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Warburg, Richard
;; REGISTRATION NUMBER: 32,327
;; REFERENCE/DOCKET NUMBER: 210/096
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (213) 489-1600
;; TELEFAX: (213) 955-0440
;; TELEX: 67-3510
;; INFORMATION FOR SEQ ID NO: 1091:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 18 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;;
US-08-363-240A-1091

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 61.1%; Pred. No. 26;
Matches 11; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Oy 507 ttgatcagtccttgactgact 524
Db 1 DUGAUCAGUCCAUUGACU 18

RESULT 20
US-08-363-240A-1092
; Sequence 1092, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600

TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1092:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1092

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 546 acctccagatcaacacac 563
Db 1 ACCUCCAGAUCCACAC 18

RESULT 21
US-08-363-240A-1093
Sequence 1093, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1093:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1093

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 26;

Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
Qy 558 acacacagctgacctgtg 575
Db 1 ACACACAGCUGACUGUG 18

RESULT 22
US-08-363-240A-1094
Sequence 1094, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1094:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1094

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 561 cacagctgacctgtgact 578
Db 1 CACAGCUGACUGUGACU 18

RESULT 23
US-08-363-240A-1095
Sequence 1095, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry

APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1095:

SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1095

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 585 gagtgcggaccgagtgccc 602
Db 1 GAGUGCGGACCGAUGCCCC 18

RESULT 24

US-08-363-240A-1096
Sequence 1096, Application US/08363240A
Patent No. 5705388

GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles

STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1096:

SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1096

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 589 gcggaccgagtgccctga 606
Db 1 CGGGACCGAUGCCCCUGA 18

RESULT 25

US-08-363-240A-1097
Sequence 1097, Application US/08363240A
Patent No. 5705388

GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:

```
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1097:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-363-240A-1097

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 26;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 598 tgcctgactgctacct 615
Db 1 UGCCCCUGACUCUACCU 18

RESULT 26
US-08-363-240A-1098
; Sequence 1098, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; SUITE: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1098:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-363-240A-1099

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 26;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 624 ataagctgctctgcatc 641
Db 1 AUAAGCUGCUCUGCAUC 18

; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1097:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-363-240A-1097

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 26;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 609 gctacctgtcttcata 626
Db 1 GCUACUGUCUUCUCAU 18

RESULT 27
US-08-363-240A-1099
; Sequence 1099, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; SUITE: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1099:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-363-240A-1099

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 26;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 624 ataagctgctctgcatc 641
Db 1 AUAAGCUGCUCUGCAUC 18
```

RESULT 28

US-08-363-240A-1100
; Sequence 1100, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071

COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1100:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-363-240A-1100

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 669 tcaagcagctgttcacaa 686
Db 1 UCAAGCAGCGUUCACAA 18

RESULT 29

US-08-363-240A-1101
; Sequence 1101, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF

; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1101:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-363-240A-1101

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 26;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

Qy 672 agcagctgttcacaaatt 689
Db 1 AGCAGCGUUCACAAAUU 18

RESULT 30

US-08-363-240A-1102
; Sequence 1102, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32, 327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1104:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1104

STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1107:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1107

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1019 gatggccgctctgctc 1036
|:|||||:|||||:
DB 1 GAUGGCCGCCUCAUGCUC 18

RESULT 36
US-08-363-240A-1108
Sequence 1108, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
TITLE OF INVENTION: OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1108:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1108

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1031 atgtcagcctgatggga 1048
|:|||||:|||||:
DB 1 AUGCUCAGCCUGAUGGA 18

RESULT 37
US-08-363-240A-1109
Sequence 1109, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
TITLE OF INVENTION: OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1109:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 18 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 US-08-363-240A-1109

Query Match 1.0%; Score 18; DB 1; Length 18;
 Best Local Similarity 83.3%; Pred. No. 26;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1035 tcagcctgatggagacg 1052
 :|||||:|||||
 Db 1 UCAGCCUGAGGAGACG 18

RESULT 38
 US-08-363-240A-1110
 ; Sequence 1110, Application US/08363240A
 ; Patent No. 5705388
 ; GENERAL INFORMATION:
 ; APPLICANT: Couture, Larry
 ; APPLICANT: McSwiggen, James
 ; APPLICANT: Bisgaler, Charles
 ; APPLICANT: Pape, Michael
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR
 ; TITLE OF INVENTION: PREVENTION, INHIBITION OF
 ; TITLE OF INVENTION: PROGRESSION AND REGRESSION
 ; NUMBER OF SEQUENCES: 1243
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Lyon & Lyon
 ; STREET: 633 West Fifth Street
 ; STREET: Suite 4700
 ; CITY: Los Angeles
 ; STATE: California
 ; COUNTRY: U.S.A.
 ; ZIP: 90071
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 ; MEDIUM TYPE: Storage
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0
 ; SOFTWARE: Word Perfect 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/363,240A
 ; FILING DATE: December 23, 1994
 ; PRIOR APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Warburg, Richard
 ; REGISTRATION NUMBER: 32,327
 ; REFERENCE/DOCKET NUMBER: 210/096
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (213) 489-1600
 ; TELEFAX: (213) 955-0440
 ; TELEX: 67-3510
 ; INFORMATION FOR SEQ ID NO: 1110:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 18 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 US-08-363-240A-1110

Query Match 1.0%; Score 18; DB 1; Length 18;
 Best Local Similarity 83.3%; Pred. No. 26;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1115 gtcggcggtttcccccagc 1132
 :|||||:|||||
 Db 1 GUGGGCGGCUUCCCGACG 18

RESULT 39
 US-08-363-240A-1111
 ; Sequence 1111, Application US/08363240A
 ; Patent No. 5705388
 ; GENERAL INFORMATION:
 ; APPLICANT: Couture, Larry
 ; APPLICANT: McSwiggen, James
 ; APPLICANT: Bisgaler, Charles
 ; APPLICANT: Pape, Michael
 ; TITLE OF INVENTION: METHOD AND REAGENT FOR
 ; TITLE OF INVENTION: PREVENTION, INHIBITION OF
 ; TITLE OF INVENTION: PROGRESSION AND REGRESSION
 ; NUMBER OF SEQUENCES: 1243
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Lyon & Lyon
 ; STREET: 633 West Fifth Street
 ; STREET: Suite 4700
 ; CITY: Los Angeles
 ; STATE: California
 ; COUNTRY: U.S.A.
 ; ZIP: 90071
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
 ; MEDIUM TYPE: Storage
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: IBM P.C. DOS 5.0
 ; SOFTWARE: Word Perfect 5.1
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/363,240A
 ; FILING DATE: December 23, 1994
 ; PRIOR APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Warburg, Richard
 ; REGISTRATION NUMBER: 32,327
 ; REFERENCE/DOCKET NUMBER: 210/096
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (213) 489-1600
 ; TELEFAX: (213) 955-0440
 ; TELEX: 67-3510
 ; INFORMATION FOR SEQ ID NO: 1111:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 18 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 US-08-363-240A-1111

Query Match 1.0%; Score 18; DB 1; Length 18;
 Best Local Similarity 77.8%; Pred. No. 26;
 Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1141 agtcacgcgtccactgctt 1158
 :|||||:|||||
 Db 1 AGUCACCGGCGCACUGCCU 18

RESULT 40
 US-08-363-240A-1112
 ; Sequence 1112, Application US/08363240A
 ; Patent No. 5705388
 ; GENERAL INFORMATION:
 ; APPLICANT: Couture, Larry
 ; APPLICANT: McSwiggen, James
 ; APPLICANT: Bisgaler, Charles

APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1112:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1112

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 77.8%; Pred. No. 26;
Matches 14; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 1148 gtccactgctcaagatg 1165
1:|||||:|||||:
DB 1 GUCCACUGCCUCAAGAUG 18

RESULT 41
US-08-363-240A-1113
Sequence 1113, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.

ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1113:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1113

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1234 acgccagaccagcaaca 1251
|||||:|||||:
DB 1 ACGCCAGACCAACCAACA 18

RESULT 42
US-08-363-240A-1114
Sequence 1114, Application US/08363240A
Patent No. 5705388
GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwiggen, James
APPLICANT: Bisgaier, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
PREVENTION, INHIBITION OF
PROGRESSION AND REGRESSION
OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1114:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1114

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 26;
Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1285 gactaccgtccaggctc 1302
|||:||||:|||||:|
Db 1 GACUACCGUCCAGGCCUC 18

RESULT 43

US-08-363-240A-1115
; Sequence 1115, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510

INFORMATION FOR SEQ ID NO: 1115:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
US-08-363-240A-1115

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 72.2%; Pred. No. 26;
Matches 13; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1338 attccagattacacaa 1355
|:::|||||:|||||
Db 1 AUUCCAGAUUACACAA 18

RESULT 44

US-08-363-240A-1116
; Sequence 1116, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1116:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-1116

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 66.7%; Pred. No. 26;
Matches 12; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 1354 aaagactgtttccaaatt 1371
|:::|||||:|||||
Db 1 AAAGACUGUUCACAAU 18

```

RESULT 45
US-08-363-240A-1117
; Sequence 1117, Application US/08363240A
; Patent No. 5705388
; GENERAL INFORMATION:
; APPLICANT: Couture, Larry
; APPLICANT: McSwiggen, James
; APPLICANT: Bisgaier, Charles
; APPLICANT: Pape, Michael
; TITLE OF INVENTION: METHOD AND REAGENT FOR
; TITLE OF INVENTION: PREVENTION, INHIBITION OF
; TITLE OF INVENTION: PROGRESSION AND REGRESSION
; TITLE OF INVENTION: OF VASCULAR DISEASES
; NUMBER OF SEQUENCES: 1243
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/363,240A
; FILING DATE: December 23, 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 210/096
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1117:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-363-240A-1117

```

```

Query Match 1.0%; Score 18; DB 1; Length 18;
Best Local Similarity 88.9%; Pred. No. 26;
Matches 16; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1376 gagagacgtccgagtc 1393
Db 1 GAGACGAGCCGAGUCC 18

```

Search completed: April 20, 2002, 01:10:12
Job time: 11211 sec

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OM nucleic - nucleic search, using sw model

Run on: April 19, 2002, 21:54:56 ; Search time 1541.31 Seconds

(without alignments)
12458.692 Million cell updates/sec

Title: US-09-925-139-3

Perfect score: 1787

Sequence: 1 gtgaatctctgggcaggag.....ggcattaaagtctgtatccc 1787

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 11351937 seqs, 5372889281 residues

Word size : 0

Total number of hits satisfying chosen parameters: 80718

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database :

EST:*
1: em_estfun:*
2: em_esthum:*
3: em_estin:*
4: em_estom:*
5: em_estpl:*
6: em_estba:*
7: em_estro:*
8: em_estov:*
9: em_htc:*
10: gb_estl:*
11: gb_est2:*
12: gb_htc:*
13: gb_gss:*
14: em_gss_fun:*
15: em_gss_hum:*
16: em_gss_inv:*
17: em_gss_pln:*
18: em_gss_pro:*
19: em_gss_rod:*
20: em_gss_vrt:*
21: em_gss_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	15	0.8	43	10 AI014286	AI014286 am46a02.s
2	15	0.8	44	13 AZ512770	AZ512770 IM0358002
3	14	0.8	19	13 AZ510143	AZ510143 IM0354P21
4	14	0.8	31	13 AZ979245	AZ979245 2M0255D20
5	14	0.8	37	10 AA995811	AA995811 OS05e12.s
6	14	0.8	43	13 AZ595978	AZ595978 IM0408023
7	14	0.8	47	13 AZ827718	AZ827718 2M0104M16
8	14	0.8	48	10 AI215970	AI215970 qh06g04.x
9	14	0.8	48	13 AZ834843	AZ834843 2M0117E18
10	14	0.8	49	13 TA3D11Q	TA3D11Q T. brucei
11	14	0.8	50	10 AI252059	AI252059 qv39f04.x
12	14	0.8	50	10 AU104702	AU104702 AU104702

13	13	0.7	19	10	AI027323	AI027323 ow46a07.s
14	13	0.7	19	13	AZ792979	AZ792979 2M0046G04
15	13	0.7	22	10	AA959224	AA959224 ua10h06.f
16	13	0.7	22	13	AZ830573	AZ830573 2M0109G23
17	13	0.7	23	13	AZ499076	AZ499076 IM0336H08
18	13	0.7	24	13	AZ820462	AZ820462 2M0092H02
19	13	0.7	26	13	AZ377014	AZ377014 IM0131F08
20	13	0.7	27	13	AZ621737	AZ621737 IM0455F15
21	13	0.7	30	13	AZ783172	AZ783172 2M0024F08
22	13	0.7	31	10	AA865448	AA865448 OM50A06.S
23	13	0.7	31	10	AA867755	AA867755 vx16508.f
24	13	0.7	31	13	AZ777749	AZ777749 2M0012H13
25	13	0.7	31	13	AZ938547	AZ938547 2M0197J10
26	13	0.7	32	13	AZ618214	AZ618214 IM0449O16
27	13	0.7	34	10	AA920912	AA920912 vt784f09.f
28	13	0.7	35	13	AZ469734	AZ469734 IM0283J19
29	13	0.7	36	13	AZ825411	AZ825411 2M0100A09
30	13	0.7	37	10	AA978054	AA978054 OQ55H01.S
31	13	0.7	39	13	AZ663277	AZ663277 IM0542O15
32	13	0.7	39	13	AZ781715	AZ781715 2M021F16
33	13	0.7	39	13	AZ825536	AZ825536 2M0100J14
34	13	0.7	40	10	AA680336	AA680336 ac83609.S
35	13	0.7	40	10	AI001093	AI001093 OS94C01.S
36	13	0.7	42	10	BE383987	BE383987 601273364
37	13	0.7	44	10	AA922988	AA922988 OK77F09.S
38	13	0.7	44	11	T48887	T48887 yb07a05.r1
39	13	0.7	45	13	AZ498888	AZ498888 IM0336E21
40	13	0.7	45	13	AZ480635	AZ480635 IM0302M18
41	13	0.7	46	10	AA730149	AA730149 nx38F03.S
42	13	0.7	46	10	AA902889	AA902889 OJ49Q04.S
43	13	0.7	46	10	AI026096	AI026096 OV94H09.S
44	13	0.7	46	10	AI264859	AI264859 qx66b12.x
45	13	0.7	46	10	AI439347	AI439347 ti54f06.x

ALIGNMENTS

RESULT 1

AI014286

LOCUS

DEFINITION

AI014286 43 bp mRNA EST 15-JUN-1998
am46a02.sl Johnston frontal cortex Homo sapiens CDNA clone
IMAGE:1538570 3' similar to gb:M87789 IG GAMMA-1 CHAIN C REGION
(HUMAN); mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Unpublished (1997)

Contact: Wilton RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@watson.wustl.edu

This clone is available royalty-free through LNL ; contact the

IMAGE Consortium (info@image.lnl.gov) for further information.

Trace considered overall poor quality

Seq primer: ~40ml3 fwd. ET from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1..43

/organism="Homo sapiens"

/db_xref="taxon:9606"

```

/clone="IMAGE:1538570"
/clone_lib="Johnston frontal cortex"
/sex="male"
/tissue_type="pooled frontal lobe"
/dev_stage="adult"
/lab_host="SOLR (kanamycin resistant)"
/notes="Organ: Brain; Vector: Bluescript SK-; Site:1: EcoRI
; Stanley Neuropathology Consortium (www.stanleylab.org)
brains S-58, S-65, S-67, S-78. Random + oligo-dr primed
into EcoRI site of ZAP II Vector. Mass excised. Avg
insert length 1.9kb. Custom library provided by Dr. Nancy
Johnston [(410) 614-3918, nlj@welchlink.welch.jhu.edu]."
```

BASE COUNT 5 a 15 c 13 g 10 t
ORIGIN

Query Match 0.8%; Score 15; DB 10; Length 43;
Best Local Similarity 100.0%; Pred. No. 2.3e+04;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 atctctggggccagg 19
|||||
Db 5 ATCTCTGGGGCCAGG 19

RESULT .2
AZ512770/c 44 bp DNA GSS 05-OCT-2000
LOCUS
DEFINITION
clone UUGC1M0358002 R, DNA sequence.

ACCESSION
AZ512770
VERSION
GSS.
KEYWORDS
SOURCE
ORGANISM

house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 44)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL
COMMENT
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0358 row: 0 column: 02
Seq primer: CACACAGGAACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 44.
Location/Qualifiers
1. 44

FEATURES
source
1. 44
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0358002"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a

0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gll4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 12 a 14 c 3 g 15 t
ORIGIN

Query Match 0.8%; Score 15; DB 13; Length 44;
Best Local Similarity 100.0%; Pred. No. 2.3e+04;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 392 agcagccaggtggag 406
|||||
Db 37 AGCAGCCAGGTGGAG 23

RESULT 3
AZ510143
LOCUS
DEFINITION

clone UUGC1M0354P21 F, DNA sequence.
ACCESSION
AZ510143
VERSION
GSS.
KEYWORDS
SOURCE
ORGANISM

house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL
COMMENT
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0354 row: P column: 21
Seq primer: CGTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1. 19

FEATURES
source
1. 19
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC1M0354P21"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA

was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 4 a 13 c 0 g 2 t
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 19;
Best Local Similarity 100.0%; Pred. No. 6.6e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 915 tccccctccacc 928
|||||
Db 5 TCCCCCTCCACC 18

RESULT 4

AZ979245/c
LOCUS 31 bp DNA GSS 27-APR-2001
DEFINITION 2M0255D20R Mouse 10kb plasmid UUGC2M library Mus musculus genomic clone UUGC2M0255D20 R, DNA sequence.

ACCESSION AZ979245
VERSION AZ979245.1 GI:13850472
KEYWORDS GSS.

SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 31)

AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)

COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0255 row: D column: 20

Seq primer: CACACGAGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 31.

Location/Qualifiers

FEATURES source
1..31

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGC2M0255D20"

/clone_lib="Mouse 10kb plasmid UUGC2M library"

/sex="Female"

/lab_host="E. coli strain XL10-Gold, Tl-resistant, F-"

/note="Vector: pMD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource"

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 8 a 3 c 16 g 4 t
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 31;
Best Local Similarity 100.0%; Pred. No. 6.9e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 915 tccccctccacc 928
|||||
Db 30 TCCCCCTCCACC 17

RESULT 5

AA995811/c
LOCUS 37 bp mRNA EST 27-JUL-1998
DEFINITION os05612.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1604494 3, similar to WP:CA7D12.2 CB05430 ;, mRNA sequence.

ACCESSION AA995811
VERSION AA995811.1 GI:3182300
KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 37)

AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index

JOURNAL Unpublished (1997)

COMMENT Contact: Robert Strausberg, Ph.D.

Email: cgaps@r@mail.nih.gov

Tissue Procurement: Christopher Moskaluk, M.D., Ph.D.; Michael R. Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality

Insert Length: 1425 Std Error: 0.00

Seq primer: -40ml3 fwd. ET from Amersham

High quality sequence stop: 1.

Location/Qualifiers

FEATURES source
1..37

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:1604494"

/clone_lib="NCI_CGAP_Lu5"

/tissue_type="carcinoid"

/lab_host="DH10B"

/note="Organ: lung; Vector: p773D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from a neuroendocrine lung carcinoid, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated

to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo.

BASE COUNT 12 a 5 c 8 g 12 t
ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 37;
Best Local Similarity 100.08; Pred. No. 7.1e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 749 atctctaacatcat 762
|||||

Db 27 ATCTCTAACATCAT 14

RESULT 6
AZ595978/c 43 bp DNA GSS 13-DEC-2000
LOCUS
DEFINITION 1M0408023R Mouse 10kb plasmid UUGCLM library Mus musculus genomic clone UUGCLM0408023 R, DNA sequence.

ACCESSION AZ595978
VERSION AZ595978.1 GI:11718168
KEYWORDS GSS.

SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 43)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0408 row: 0 column: 23
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 43.

FEATURES
source

1. .43
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCLM0408023"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/note="vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 11 a 1 c 18 g 13 t
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 43;
Best Local Similarity 100.08; Pred. No. 7.2e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1738 cccaactctctcct 1751
|||||

Db 39 CCCAACTCTCTCCT 26

RESULT 7
AZ827718/c 47 bp DNA GSS 20-FEB-2001

LOCUS 2M0104M16F Mouse 10kb plasmid UUGCLM library Mus musculus genomic clone UUGCLM0104M16 F, DNA sequence.

ACCESSION AZ827718
VERSION AZ827718.1 GI:12997626
KEYWORDS GSS.

SOURCE house mouse.
ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 47)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA

Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0104 row: M column: 16
Seq primer: CGTTGTAAACGACGGCCACT
Class: plasmid ends
High quality sequence stop: 47.

FEATURES
source

1. .47
Location/Qualifiers
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCLM0104M16"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/note="vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number

inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 15 a 13 c 7 g 12 t
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 47;
Best Local Similarity 100.0%; Pred. No. 7.2e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1301 tcctattctaagaa 1314
|||||
Db 33 TCCTATTCTAAGAA 20

RESULT 8
A1215970 48 bp mRNA EST 30-NOV-1998
LOCUS q006g04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone
DEFINITION IMAGE:1843926 3' similar to gb:M68516_rnal PLASMA SERINE PROTEASE
(HUMAN); mRNA sequence.
ACCESSION A1215970
VERSION A1215970.1 GI:3785011
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov

This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Insert Length: 3306 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 1.
Location/Qualifiers
1. .48

FEATURES
source

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1843926"
/lab_host="Soares_NFL_T_GBC_S1"
/note="Organ: pooled; Vector: p7T3D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not 1; Site_2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung NBHL19W, testis NHT, and B-cell
NCI-CCAP GC81) were mixed, and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728711, and 729096-731399. Subtraction by Bento
Soares and M. Fatima Bonaldo."
BASE COUNT 13 a 17 c 4 g 14 t
ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 48;
Best Local Similarity 100.0%; Pred. No. 7.2e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1127 ccagccaggccca 1140

Db 11 CCCAGCCAGGCCCA 24
|||||

RESULT 9
AZ834843

LOCUS AZ834843 48 bp DNA GSS 20-FEB-2001
DEFINITION 2M0117E18R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0117E18 R, DNA sequence.

ACCESSION AZ834843
VERSION AZ834843.1 GI:13004751
KEYWORDS GSS.
SOURCE house musculus
ORGANISM Mus musculus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS 1 (bases 1 to 48)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhauser,A.
and Wright,D., Weiss,R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center

University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
Plate: 0117 ROW: E column: 18
Seq primer: CACACAGGACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 48.
Location/Qualifiers
1. .48

FEATURES
source

/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0117E18"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gi14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid RL. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT 14 a 14 c 9 g 11 t
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 48;
Best Local Similarity 100.0%; Pred. No. 7.2e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1755 ctaaaggcccaactg 1768
|||||
Db 12 CTAAGGCCCACTG 25

RESULT 10
TA3D110/c
LOCUS
DEFINITION
T. brucei sheared genomic DNA clone 3d11, reverse sequence, genomic
survey sequence.
ACCESSION AL451995
VERSION AL451995.1 GI:11854310
KEYWORDS GSS.
SOURCE Trypanosoma brucei.
ORGANISM Trypanosoma brucei.
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Trypanosoma.
REFERENCE 1 (bases 1 to 49)
AUTHORS Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R.,
Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L.,
Melville, S.E., Rajandream, M.A. and Barrell, B.G.
DIRECT SUBMISSION
JOURNAL Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing
project, Sanger Centre, The Wellcome Trust Genome Campus, Hinxton,
Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and
nh@sanger.ac.uk
COMMENT Constructed at the Institute for Genomic Research (TIGR),
Rockville, MD. Genomic DNA isolated from a cloned population of
Trypanosoma brucei (TREU927/4 Gurat 10.1) was mechanically sheared
to give a tight size distribution (
4 Kb). The v + i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgun sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
Barrell, Oxford University Press, 1999).
Email: nelsayed@tigr.org
Details of T. brucei sequencing at the Sanger Centre are available
at http://www.sanger.ac.uk/Projects/T_brucei/.
FEATURES
source
1..49
/organism="Trypanosoma brucei"
/strain="TREU927"
/db_xref="taxon:5691"
/clone="3d11"
BASE COUNT 13 a 19 c 9 g 8 t
ORIGIN

Query Match 0.8%; Score 14; DB 13; Length 49;
Best Local Similarity 100.0%; Pred. No. 7.3e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1546 gctgctgcagatg 1559
|||||
Db 16 GCTGCTGCAGATG 3

RESULT 11
AI252059/c
LOCUS
DEFINITION
qy39f04.x1 NCI-CGAP_Ov31 Homo sapiens cDNA clone IMAGE:1983967 3'
similar to gb:L21696_cds1 PROTHYMOSIN ALPHA (HUMAN); contains
PFR5 t3 MSRI repetitive element ; mRNA sequence.
ACCESSION AI252059
VERSION AI252059.1 GI:3848588
KEYWORDS EST.
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

```

```

Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps@mail.nih.gov
unknown library type
Trace considered overall poor quality
Insert length: 304 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 1.
FEATURES
source
1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1983967"
/clone_lib="NCI_CGAP_Ov31"
/sex="female"
/tissue_type="papillary serous carcinoma"
/lab_host="DH10B"
/note="Organ: ovary; Vector: PAMPL; mRNA made from ovarian
carcinoma, cDNA made by oligo-dT priming.
Non-directionally cloned. Size-selected on agarose gel,
average insert size 500 bp. Non-amplified library."
BASE COUNT 18 a 2 c 26 g 4 t
ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 50;
Best Local Similarity 100.0%; Pred. No. 7.3e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 919 cctcccacattct 932
|||||
Db 21 CCTCCCCACCTTCT 8

RESULT 12
AI0104702
LOCUS
DEFINITION
AI0104702 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
HRC06060, mRNA sequence.
ACCESSION AI0104702
VERSION AI0104702.1 GI:13554223
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki, Y., Tsunoda, T., Taira, H., Mizushima-Sugano, J., Sese, J., Hata
, H., Ota, T., Isozaki, T., Tanaka, T., Nakamura, Y., Morishita, S., Okubo
, K., Suyama, A. and Sugano, S.
TITLE Fine Structural analysis of transcription start sites of human
mRNAs using full-length enriched and 5'-end enriched cDNA libraries
Unpublished (2001)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
, S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
FEATURES
source
1..50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HRC06060"
/clone_lib="Sugano Homo sapiens cDNA library"
BASE COUNT 4 a 23 c 17 g 6 t
ORIGIN

Query Match 0.8%; Score 14; DB 10; Length 50;

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Best Local Similarity 100.0%; Pred. No. 7.3e+04;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1125 tccccagccagcc 1138
Db 32 TCCCCAGCCAGGCC 45
|||||

RESULT 13

LOCUS

DEFINITION

AT027323 19 bp mRNA EST 28-AUG-1998
OW46a07.s1 Soares.parathyroid_tumor_NbHPA Homo sapiens cDNA clone
IMAGE:1649844 3' similar to TR:Q15929 Q15929 DNA-BINDING PROTEIN ; ,
mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Human
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 19)
NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgabpsr@mail.nih.gov
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
, Ph.D.

CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CCAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 968 Std Error: 0.00
Seq primer: -40m13 fwd. Et from Amersham

High quality sequence stop: 1.
Location/Qualifiers

1. .19

FEATURES

source

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1649844"
/clone.lib="Soares.parathyroid_tumor_NbHPA"
/tissue_type="parathyroid tumor"
/dev_stage="adult"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: parathyroid gland; Vector: pTTT3D (Pharmacia
) with a modified polylinker; Site.1: Not I; Site.2: Eco
RI; 1st strand cDNA was primed with a Not I - oligo(dT)
primer
[5'-TGTTACCAATCTGAAGTGGAGCGCGCCACCAATTTTTTTTTTTTTTTT
TTTTT-3'], double-stranded cDNA was size selected, ligated
to Eco RI adapters (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of a modified pTTT3
vector (Pharmacia). Library went through one round of
normalization to a Cot - 5. Library constructed by Bento
Soares and M. Fatima Bonaldo. RNA from sporadic parathyroid
adenomas was kindly provided by Dr. Stephen Marx, National
Institute of Diabetes and Digestive and Kidney Diseases,
NIH."

BASE COUNT 6 a 7 c 6 g 0 t

ORIGIN

Query Match

Best Local Similarity 0.7%; Score 13; DB 10; Length 19;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 310 cacggcgagaag 322
|||||

Db 4 CACGGCGAGAAG 16

RESULT 14

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

AZ792979 19 bp DNA GSS 16-FEB-2001
2M0046G04F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
clone UUGC2M0046G04 F, DNA sequence.

AZ792979
GSS.
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.,
Mouse whole genome scaffolding with paired end reads from 10Kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg.; 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0046 row: G column: 04
Seq primer: CGTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers

1. .19

FEATURES

source

/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0046G04"
/clone.lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: pWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (g14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid RI. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 8 a 2 c 4 g 5 t

ORIGIN

Query Match

Best Local Similarity 0.7%; Score 13; DB 13; Length 19;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 615 tgccttcataa 627

```

Db 16 TGTCTTCATTA 4
|||||
RESULT 15
AA959224/c
LOCUS
DEFINITION
  aa10h06.rl Soares_mammary_gland_NBMNG Mus musculus cDNA clone
  IMAGE:1346363 5', similar to SW:COX3_MOUSE P00416 CYTOCHROME C
  OXIDASE POLYPEPTIDE III ; mRNA sequence.
ACCESSION
  AA959224
VERSION
  AA959224.1 GI:3124417
KEYWORDS
  EST.
SOURCE
  house musculus
ORGANISM
  Mus musculus
REFERENCE
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
  1 (bases 1 to 22)
AUTHORS
  Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
  Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
  Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
  Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
  Waterston,R.
TITLE
  The WashU-HMI Mouse EST Project
JOURNAL
  Unpublished (1996)
COMMENT
  Contact: Maria M/Mouse EST Project
  WashU-HMI Mouse EST Project
  Washington University School of Medicine
  4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
  Tel: 314 286 1800
  Fax: 314 286 1810
  Email: mouseest@watson.wustl.edu
  This clone is available royalty-free through LLNL; contact the
  IMAGE Consortium (info@image.llnl.gov) for further information.
  MGI:695155
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev2 ET from Amersham
High quality sequence stop: 1.
FEATURES
  source
  1..22
  /organism="Mus musculus"
  /strain="C57BL/6J"
  /db_xref="taxon:10090"
  /clone_image="1346363"
  /clone_lib="Soares_mammary_gland_NBMNG"
  /sex="male"
  /tissue_type="mammary gland"
  /dev_stage="4 weeks"
  /lab_host="DH10B"
  /note="Organ: mammary gland; Vector: pT7T3D-Pac (Pharmacia
  ) with a modified polylinker; Site_1: Not I; Site_2: Eco
  RI; 1st strand cDNA was primed with a Not I - oligo(dT)
  primer [5'
  TGTTCACCAATCTGAAGTGGGAGCGCGCGAATGTTTGTGTGTGTGTGTGTGTGT
  T 3']; double-stranded cDNA was ligated to Eco RI
  adaptors (Pharmacia), digested with Not I and cloned into
  the Not I and Eco RI sites of the modified pT7T3 vector.
  RNA provided by Dr. Minoru Ko, Wayne State Univ. Library
  constructed and normalized by Bento Soares and M.Fatima
  Bonaldo."
BASE COUNT
  8 a 7 c 2 g 5 t
ORIGIN
  0.7%; Score 13; DB 10; Length 22;
  Best Local Similarity 100.0%; Pred. No. 2.le+05;
  Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1215 tggtagaattcct 1227
  Db 13 TGTGCAATTCCT 1
  |||||
  Query Match
  Best Local Similarity 100.0%; Score 13; DB 13; Length 22;
  Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1263 acacatttgaaga 1275
  Db 9 ACACATTGAAGA 21
  |||||
us-09-925-139-3.rst
|||||
RESULT 16
AZ830573
LOCUS
DEFINITION
  2M0109623R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
  clone UUGC2M0109623 R, DNA sequence.
ACCESSION
  AZ830573
VERSION
  AZ830573.1 GI:13000481
KEYWORDS
  GSS.
SOURCE
  house mouse.
ORGANISM
  Mus musculus
REFERENCE
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
  1 (bases 1 to 22)
AUTHORS
  Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
  Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
  and Wright,D., Weiss,R.
TITLE
  Mouse whole genome scaffolding with paired end reads from 10kb
  plasmid inserts
JOURNAL
  Unpublished (2000)
COMMENT
  Contact: Robert B. Weiss
  University of Utah Genome Center
  University of Utah
  Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
  84112, USA
  Tel: 801 585 5606
  Fax: 801 585 7177
  Email: ddunn@genetics.utah.edu
  Insert Length: 10000 Std Error: 0.00
  Plate: 0109 row: G column: 23
  Seq primer: CACACAGGAACAGCTATGACC
  Class: Plasmid ends
  High quality sequence stop: 22.
FEATURES
  source
  1..22
  /organism="Mus musculus"
  /strain="C57BL/6J"
  /db_xref="taxon:10090"
  /clone="UUGC2M0109623"
  /clone_lib="Mouse 10kb plasmid UUGC1M library"
  /sex="Male"
  /lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
  /note="Vector: PWD42nv; Purified genomic DNA from M.
  musculus C57BL/6J (male) was obtained from the Jackson
  Laboratory Mouse DNA Resource
  (http://www.jax.org/resources/documents/dnares/). The DNA
  was hydrodynamically sheared by repeated passage through a
  0.005 inch orifice at constant velocity. The sheared DNA
  was blunt end-repaired with T4 DNA polymerase and T4
  polynucleotide kinase. Adaptor oligonucleotides were
  ligated to the blunt ends in high molar excess. The
  adaptor DNA was purified and size-selected for a 9.5 to
  10.5 kb range using preparative agarose gel
  electrophoresis. Vector DNA was prepared from a derivative
  of pWD42 (gi14732114|gb1AF129072.1), a copy-number
  inducible derivative of plasmid R1. The vector was ligated
  with adaptors complementary to the insert adaptors and
  purified. The sheared, adaptor mouse DNA was annealed to
  adaptor vector DNA, and transformed into
  chemically-competent E. coli XL10-Gold (Stratagene) cells
  and selected for ampicillin resistance."
BASE COUNT
  8 a 5 c 5 g 4 t
ORIGIN
  0.7%; Score 13; DB 13; Length 22;
  Best Local Similarity 100.0%; Pred. No. 2.le+05;
  Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
  QY 1263 acacatttgaaga 1275
  Db 9 ACACATTGAAGA 21
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```

```

RESULT 17
A2499076      23 bp   DNA      GSS      05-OCT-2000
LOCUS      1M0336H08R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION      clone UUGC1M0336H08 R, DNA sequence.
ACCESSION      A2499076
VERSION      A2499076.1 GI:10677540
KEYWORDS      GSS.
SOURCE      house mouse.
ORGANISM      Mus musculus
REFERENCE      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS      Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 23)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
JOURNAL      Contact: Robert B. Weiss
COMMENT      University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0336 row: H column: 08
Seq primer: CACACAGGAACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 23.
FEATURES      Location/Qualifiers
source      1..23
            /organism="Mus musculus"
            /strain="C57BL/6J"
            /db_xref="taxon:10090"
            /clone="UUGC1M0336H08"
            /clone_lib="Mouse 10kb plasmid UUGC1M library"
            /sex="Male"
            /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
            /note="Vector: PWD42nv; Purified genomic DNA from M.
            musculus C57BL/6J (male) was obtained from the Jackson
            Laboratory Mouse DNA Resource
            (http://www.jax.org/resources/documents/dnares/). The DNA
            was hydrodynamically sheared by repeated passage through a
            0.005 inch orifice at constant velocity. The sheared DNA
            was blunt end-repaired with T4 DNA polymerase and T4
            polynucleotide kinase. Adaptor oligonucleotides were
            ligated to the blunt ends in high molar excess. The
            adaptor DNA was purified and size-selected for a 9.5 to
            10.5 kb range using preparative agarose gel
            electrophoresis. Vector DNA was prepared from a derivative
            of pWD42 (gi14732114|gb|AF129072.1), a copy-number
            inducible derivative of plasmid R1. The vector was ligated
            with adaptors complementary to the insert adaptors and
            purified. The sheared, adaptor mouse DNA was annealed to
            adaptor vector DNA, and transformed into
            chemically-competent E. coli XL10-Gold (Stratagene) cells
            and selected for ampicillin resistance."
BASE COUNT      0 a 16 c 1 g 6 t
ORIGIN
Query Match      0.7%; Score 13; DB 13; Length 23;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 913 cctccctccccc 925
|||||

```

```

Db. 8 CCTCCCCCTCCCC 20

RESULT 18
A2820462/c
LOCUS      2M0092H02R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION      clone UUGC2M0092H02 R, DNA sequence.
ACCESSION      A2820462
VERSION      A2820462.1 GI:12990286
KEYWORDS      GSS.
SOURCE      house mouse.
ORGANISM      Mus musculus
REFERENCE      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS      Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 24)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
JOURNAL      Contact: Robert B. Weiss
COMMENT      University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0092 row: H column: 02
Seq primer: CACACAGGAACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 24.
FEATURES      Location/Qualifiers
source      1..24
            /organism="Mus musculus"
            /strain="C57BL/6J"
            /db_xref="taxon:10090"
            /clone="UUGC2M0092H02"
            /clone_lib="Mouse 10kb plasmid UUGC1M library"
            /sex="Male"
            /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
            /note="Vector: PWD42nv; Purified genomic DNA from M.
            musculus C57BL/6J (male) was obtained from the Jackson
            Laboratory Mouse DNA Resource
            (http://www.jax.org/resources/documents/dnares/). The DNA
            was hydrodynamically sheared by repeated passage through a
            0.005 inch orifice at constant velocity. The sheared DNA
            was blunt end-repaired with T4 DNA polymerase and T4
            polynucleotide kinase. Adaptor oligonucleotides were
            ligated to the blunt ends in high molar excess. The
            adaptor DNA was purified and size-selected for a 9.5 to
            10.5 kb range using preparative agarose gel
            electrophoresis. Vector DNA was prepared from a derivative
            of pWD42 (gi14732114|gb|AF129072.1), a copy-number
            inducible derivative of plasmid R1. The vector was ligated
            with adaptors complementary to the insert adaptors and
            purified. The sheared, adaptor mouse DNA was annealed to
            adaptor vector DNA, and transformed into
            chemically-competent E. coli XL10-Gold (Stratagene) cells
            and selected for ampicillin resistance."
BASE COUNT      5 a 3 c 6 g 10 t
ORIGIN
Query Match      0.7%; Score 13; DB 13; Length 24;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 67 gacatacatatc 79

```

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Db      23  GACATACATATAC 11

RESULT 19
A2377014/c
LOCUS   A2377014      26 bp      DNA
DEFINITION
clone UUGCLM0131F08 F, DNA sequence.
ACCESSION
A2377014
VERSION
A2377014.1
KEYWORDS
GSS.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 26)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL
Unpublished (2000)
COMMENT
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0131 row: F column: 08
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 26.
FEATURES
Location/Qualifiers
1..26
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCLM0131F08"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
4 a 7 c 6 g 9 t

BASE COUNT
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 26;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db      832  gacagtgatccc 844
LOCUS   A2621737/c
DEFINITION
clone UUGCLM0455F15 F, DNA sequence.
ACCESSION
A2621737
VERSION
A2621737.1
KEYWORDS
GSS.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 27)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL
Unpublished (2000)
COMMENT
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0455 row: F column: 15
Seq primer: CGTTGTAAACGACGCCAGT
Class: plasmid ends
High quality sequence stop: 27.
FEATURES
Location/Qualifiers
1..27
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCLM0455F15"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M.
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
6 a 3 c 10 g 8 t

BASE COUNT
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 27;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1513 caaccctagatt 1525
Db 27 CAACCTGAGATT 15

RESULT 21
A2783172 30 bp DNA GSS 16-FEB-2001
LOCUS 2M0024F08 Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION clone UUGC2M0024F08 R, DNA sequence.
ACCESSION A2783172
VERSION A2783172.1 GI:12917634
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 30)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamill,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0024 row: F column: 08
Seq primer: CACACGAGAAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 30.
FEATURES
source
1. 30
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M0024F08"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gi14732114/gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."
BASE COUNT 0 a 27 c 0 g 3 t
ORIGIN

```

```

Query Match 0.7%; Score 13; DB 13; Length 30;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 913 cctcccctcccc 925
Db 18 CTTCCCTCCCTCCC 30

RESULT 22
AA865448 31 bp mRNA EST 29-APR-1998
LOCUS oh50a06.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1470034 3'
DEFINITION RIBONUCLEOPROTEIN G ; mRNA sequence.
ACCESSION AA865448
VERSION AA865448.1 GI:2957724
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 31)
REFERENCE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
AUTHORS National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 753 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
FEATURES
source
1. 31
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1470034"
/clone_lib="NCI_CGAP_GC4"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from 3 pooled
germ cell tumors, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified pT7T3
vector. Library is normalized. Library was constructed by
Bento Soares and M. Fatima Bonaldo."
BASE COUNT 6 a 5 c 13 g 7 t
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 31;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

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QY 1447 gtctcggtctcgag 1459
Db 14 GTCTCGGTCTCGAG 26

RESULT 23
AA867755 31 bp mRNA EST 16-MAR-1998
LOCUS AA867755
DEFINITION vx16b08.r1 Soares_thymus_2NBMT Mus musculus cDNA clone

```



```

KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
source
1. 31
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone_lib="Mouse 10kb plasmid UUGC2M library"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT      5 a      2 c      11 g      13 t
ORIGIN

Query Match      0.7%  Score 13;  DB 13;  Length 31;
Best Local Similarity 100.0%; Pred. No. 2.1e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1513 caaccctgagatt 1525
|||||
Db 25 CAACCTGAGATT 13

RESULT 26
LOCUS      AZ618214      32 bp      DNA      GSS      13-DEC-2000
DEFINITION 1M0449016R Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC1M0449016 R, DNA sequence.
ACCESSION  AZ618214

KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
FEATURES
source
1. 32
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/notes="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT      5 a      9 c      10 g      8 t
ORIGIN

Query Match      0.7%  Score 13;  DB 13;  Length 32;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1551 tgcagatggactt 1563
|||||
Db 5 TGCAGATGGACTT 17

RESULT 27
LOCUS      AA920912      34 bp      mRNA      EST      20-APR-1998
DEFINITION vy84f09.r1 Stratagene mouse macrophage (#937306) Mus musculus cdna clone IMAGE:1312937 5' similar to SW:CB45_MOUSE Q61112 45 RD

```

and Wright,D.,Weiss,R.
Mouse whole genome scaffolding with paired end reads from 10Kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunne@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0283 row: J column: 19
Seq primer: CGTTGTAAACGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 35.
Location/Qualifiers
1. .35
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGCLM0283J19"
/clone_lib="Mouse 10kb plasmid UUGCLM library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (g14732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT 0 a 24 c 2 g 9 t
ORIGIN

Query Match 0.7%; Score 13; DB 13; Length 35;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 913 cctcccccctcccc 925
|||||
Db 23 CCTCCCTCCCTCCCC 35

RESULT 29
AZ825411 36 bp DNA GSS 20-FEB-2001
2M0100A09R Mouse 10kb plasmid UUGCLM library Mus musculus genomic
clone UUGCLM0100A09 R, DNA sequence.

ACCESSION AZ825411
VERSION AZ825411
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 36)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly

Calcium-BINDING PROTEIN PRECURSOR ; mRNA sequence.
AA920912
AA920912.1 GI:3067691
EST.
house mouse.
Mus musculus
Mammalia; Euteleostomi; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 34)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
Giesel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
Schellberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
Waterston,R.
The WashU-HMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:683233
Trace considered overall poor quality
Possible reversed clone; similarity on wrong strand
Seq primer: -28m13 rev1 ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. .34
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="IMAGE:1312937"
/clone_lib="Stratagene mouse macrophage (#937306)"
/tissue_type="macrophage"
/dev_stage="WEHI-3 cell line"
/lab_host="SOLR (kanamycin resistant)"
/note="Organ: blood; Vector: pBluescript SK-; Site_1:
EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer:
Oligo dT. WEHI-3 cell line. Average insert size: 1.5 kb;
Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGCGCAGG
3' -3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3"

BASE COUNT 6 a 14 c 7 g 7 t
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 34;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 695 tccttcacctga 707
|||||
Db 9 TCCTTCACCTGA 21

RESULT 28
AZ469734 35 bp DNA GSS 04-OCT-2000
1M0283J19F Mouse 10kb plasmid UUGCLM library Mus musculus genomic
clone UUGCLM0283J19 F, DNA sequence.

ACCESSION AZ469734
VERSION AZ469734
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 35)
Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A.

M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R., Tingey, A., von Niederhausern, A. Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0100 row: A column: 09
 Seq primer: CACACAGGAACAGCTATGACC
 Class: plasmid ends
 High quality sequence stop: 36.

FEATURES

source

1. 36
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0100A09"
 /clone.lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (g1147321141gb1AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

ORIGIN

11 a 7 c 7 g 11 t

Query Match 0.7%; Score 13; DB 13; Length 36;
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1167 ccaagatctcctg 1179

Db 36 CCAAGATCTCCTG 24

RESULT 30

AA978054

LOCUS

AA978054 37 bp mRNA EST 23-JUL-1998
 oq55h01.s1 NCI-CGAP_Kid5 Homo sapiens CDNA clone IMAGE:1590289 3'
 similar to SW:RAD2_HUMAN P54819 ADENYLATE KINASE ISOENZYME 2,
 MITOCHONDRIAL ; mRNA sequence.

ACCESSION

AA978054

VERSION

AA978054.1

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 37)

AUTHORS

TITLE

JOURNAL

COMMENT

NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished (1997)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-re@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
 CDNA Library Preparation: M. Bento Soares, Ph.D.
 CDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

FEATURES

source

Trace considered overall poor quality
 Insert Length: 419 Std Error: 0.00
 Seq primer: -40ml3 fwd. ET from Amersham
 High quality sequence stop: 1.
 Location/Qualifiers
 1. 37

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:1590289"
 /clone.lib="NCI-CGAP_Kid5"
 /tissue_type="2 pooled tumors (clear cell type)"
 /lab_host="DH10B"
 /note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5', AACTGGAGAAATTCGCGCGCAATATTTTTTTTTTTTTTTT 3'], double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT

ORIGIN

7 a 12 c 9 g 9 t

Query Match

0.7%; Score 13; DB 10; Length 37;

Best Local Similarity 100.0%; Pred. No. 2.2e+05;

Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 659 cctgggtgatca 671

Db 6 CCTGGGTGATCA 18

RESULT 31

AZ663277

LOCUS

AZ663277 39 bp DNA GSS 14-DEC-2000
 1M0542015R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC1M0542015 R, DNA sequence.

ACCESSION

AZ663277

VERSION

AZ663277.1

KEYWORDS

GSS.

SOURCE

house mouse.

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

REFERENCE

1 (bases 1 to 39)

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
 Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
 M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
 and Wright, D., Weiss, R.,
 Mouse whole genome scaffolding with paired end reads from 10kb
 plasmid inserts
 Unpublished (2000)
 Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0542 row: 0 column: 15
 Seq primer: CACACAGGAACACGATGACC
 Class: plasmid ends
 High quality sequence stop: 39.

FEATURES

Location/Qualifiers
 1. .39
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0542015"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, P-"
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
 ORIGIN

5 a 7 c 7 g 20 t

Query Match 0.7%; Score 13; DB 13; Length 39;
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 43 ctcattgtccgtg 55
 |||||
 Db 10 CTCATGTCGCGT 22

RESULT 32
 AZ781715/c

LOCUS AZ781715 39 bp DNA GSS 16-FEB-2001
 DEFINITION 2M0021F16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC2M0021F16 F, DNA sequence.
 ACCESSION AZ781715
 VERSION AZ781715.1 GI:12914686
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 39)

REFERENCE 1 (bases 1 to 39)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)
 CONTACT: Robert B. Weiss
 UNIVERSITY OF UTAH GENOME CENTER
 UNIVERSITY OF UTAH

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0021 row: F column: 16
 Seq primer: CGTGTAAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 39.

FEATURES

Location/Qualifiers
 1. .39
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0021F16"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, T1-resistant, P-"
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
 ORIGIN

12 a 3 c 17 g 7 t

Query Match 0.7%; Score 13; DB 13; Length 39;
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 147 tctgacctggc 159
 |||||
 Db 26 TCCTGACCTGGC 14

RESULT 33
 AZ825536/c

LOCUS AZ825536 39 bp DNA GSS 20-FEB-2001
 DEFINITION 2M0100J14R Mouse 10kb plasmid UUGC1M library Mus musculus genomic
 clone UUGC2M0100J14 R, DNA sequence.
 ACCESSION AZ825536
 VERSION AZ825536.1 GI:12995444
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 39)

REFERENCE 1 (bases 1 to 39)
 Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., and Wright, D., Weiss, R.

TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts

JOURNAL Unpublished (2000)
 CONTACT: Robert B. Weiss
 UNIVERSITY OF UTAH GENOME CENTER
 UNIVERSITY OF UTAH

University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0100 row: J column: 14
Seq primer: CACACAGGAACACGCTATGACC
Class: plasmid ends
High quality sequence stop: 39.

FEATURES

source

Location/Qualifiers
1. 39
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUGC2M01000114"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, TI-resistant, F-"
/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (gi:4732114|gb|AF129072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN

7 a 3 c 21 g 8 t

Query Match

Best Local Similarity 0.7%; Score 13; DB 13; Length 39;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 917 cccctcccccacct 929

Db 26 CCCCTCCCACT 14

RESULT 34

AA680336

LOCUS

DEFINITION ac83e09.sl Stratagene lung (#937210) Homo sapiens CDNA clone
IMAGE:869224 3' similar to TR:G836930 G836930 MELANOMA ANTIGEN P15.
; mRNA sequence.

ACCESSION

AA680336

VERSION

KEYWORDS

EST

SOURCE

human.

ORGANISM

Homo sapiens

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgabbs-r@mail.nih.gov

Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael Emmert-Buck, M.D., Ph.D.

CDNA Library Prepared by: M. Bento Soares, Ph.D.

DNA Sequencing by: Greg Lennon, Ph.D.

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality

Seq primer: 40ml3 fwd. ET from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1. 40

/organism="Homo sapiens"

/db_xref="taxon:9606"

Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu

This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: 40ml3 fwd. ET from Amersham
High quality sequence stop: 1.

FEATURES

source

Location/Qualifiers
1. 40
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:869224"
/clone_lib="Stratagene lung (#937210)"
/sex="male"
/dev_stage="72 years"
/lab_host="SOLR cells (kanamycin resistant)"
/note="organ: lung; Vector: pBluescript SK-; Site_1: EcoRI; Site_2: XhoI; Cloned unidirectionally. Primer: Oligo dr. normal lung. Average insert size: 1.0 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGACGAG 3' -3' adaptor sequence: 5' CTCGACTTTTTCCTTTTTCCTTTT 3"

BASE COUNT
ORIGIN

5 a 16 c 9 g 10 t

Query Match

Best Local Similarity 0.7%; Score 13; DB 10; Length 40;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1686 ctctccacgctg 1698

Db 20 CTCCTCCGCGTG 32

RESULT 35

AI001093

LOCUS

DEFINITION OS94c01.sl NCI-CGAP_GC3 Homo sapiens CDNA clone IMAGE:1612992 3' similar to SW:TISD_HUMAN P47974 TIS1LD PROTEIN, mRNA sequence.

ACCESSION

AI001093

VERSION

KEYWORDS

EST

SOURCE

human.

ORGANISM

Homo sapiens

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgabbs-r@mail.nih.gov

Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael Emmert-Buck, M.D., Ph.D.

CDNA Library Prepared by: M. Bento Soares, Ph.D.

DNA Sequencing by: Greg Lennon, Ph.D.

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality

Seq primer: 40ml3 fwd. ET from Amersham

High quality sequence stop: 1.

Location/Qualifiers

1. 40

/organism="Homo sapiens"

/db_xref="taxon:9606"

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/clone="IMAGE:1612992"
/clone_lib="NCI_CGAP_GC3"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/notes="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from 3 pooled
germ cell tumors, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified pT73
vector. Library is not normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT          4 a 13 c 20 g 3 t
ORIGIN

Query Match
Best Local Similarity 0.7%; Score 13; DB 10; Length 40;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 ggaggctggggcgg 67
Db 4 GGGGCTGGCGG 16
|||||

RESULT 36
BE383987/c
LOCUS
DEFINITION 601273364F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614462 5',
mRNA sequence.
ACCESSION BE383987
VERSION BE383987.1 GI:9329352
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 42)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC/DCTD/DTF
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: L1CM276 row: p column: 15
High quality sequence start: 27
High quality sequence stop: 42.
Location/Qualifiers
1. 42
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:3614462"
/clone_lib="NIH_MGC_20"
/tissue_type="melanotic melanoma"
/lab_host="DH10B (phage-resistant)"
/notes="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
BASE COUNT          9 a 5 c 17 g 11 t
ORIGIN

Query Match
Best Local Similarity 0.7%; Score 13; DB 10; Length 42;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 852 cagcctctctacct 864
Db 20 CAGCCTCTCTACCT 8
|||||

RESULT 37
AA922988
LOCUS
DEFINITION OK77f09.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1520009 3',
similar to gb:S41211 HOMEBOX PROTEIN HOX-A10 (HUMAN);, mRNA
sequence.
ACCESSION AA922988
VERSION AA922988.1 GI:3070297
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 44)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

```

Trace considered overall poor quality
Seq primer: -40ml3 fwd. ET from AmerSham
High quality sequence stop: 1.

FEATURES
source

```

1. 44
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1520009"
/clone_lib="NCI_CGAP_GC4"
/tissue_type="pooled germ cell tumors"
/lab_host="DH10B"
/notes="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; 1st strand cDNA was prepared from 3 pooled
germ cell tumors, and was then primed with a Not I -
oligo(dT) primer. Double-stranded cDNA was ligated to Eco
RI adaptors (Pharmacia), digested with Not I and cloned
into the Not I and Eco RI sites of the modified pT73
vector. Library is normalized. Library was constructed by
Bento Soares and M. Fatima Bonaldo."
BASE COUNT          7 a 8 c 15 g 14 t
ORIGIN

```

Query Match 0.7%; Score 13; DB 10; Length 44;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1541 ttccgtctctgc 1553
Db 26 TTCCGTCTCTGTC 38
|||||

```

RESULT 38

T48887

LOCUS

DEFINITION

T48887 44 bp mRNA

EST

YB07A05.r1 Stratagene placenta (#937225) Homo sapiens cDNA clone

REFERENCE 1 (bases 1 to 45)
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A., and Wright, D., Weiss, R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: dunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0302 row: M column: 18
 Seq primer: CGTTGTAACACGACGCCAGT
 Class: plasmid ends
 High quality sequence stop: 45.
 Location/Qualifiers
 1..45
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC1M0302M18"
 /clone_lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
 /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD42 (gi14732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
 BASE COUNT 10 a 12 c 12 g 11 t
 ORIGIN
 Query Match 0.7%; Score 13; DB 13; Length 45;
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 113 caccactgcctga 125
 ||| ||||| |||||
 Db 19 CACCACGCGCTGA 7
 RESULT 41
 AA730149
 LOCUS AA730149 46 bp mRNA
 DEFINITION nx38f03.s1 NCI-CGAP_G04 Homo sapiens cDNA clone IMAGE:1258397 3', similar to TR:Q99544 Q99544 M-PHASE PHOSPHOPROTEIN 4; contains Alu repetitive element;; mRNA sequence.
 ACCESSION AA730149
 VERSION AA730149.1 GI:2751431
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 46)
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 Unpublished (1997)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www.bio.llnl.gov/bbrp/image/image.html
 Insert Length: 704 Std Error: 0.00
 Seq primer: -40ml3 fwd. ET from Amersham
 High quality sequence stop: 1.
 Location/Qualifiers
 1..46
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:1258397"
 /clone_lib="NCI-CGAP_G04"
 /tissue_type="pooled germ cell tumors"
 /lab_host="DH10B"
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from 3 pooled germ cell tumors, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized. Library was constructed by Bento, Soares and M. Fatima Bonaldo."
 BASE COUNT 14 a 11 c 12 g 9 g 12 t
 ORIGIN
 Query Match 0.7%; Score 13; DB 10; Length 46;
 Best Local Similarity 100.0%; Pred. No. 2.2e+05;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 874 tcacaagggtcat 886
 ||| ||||| |||||
 Db 24 TCACAGGGTGCAT 36
 RESULT 42
 AA902889
 LOCUS AA902889 46 bp mRNA
 DEFINITION OJ49G04.s1 NCI-CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1501686 3', similar to TR:Q29294 Q29294 ZINC FINGER PROTEIN ;, mRNA sequence.
 ACCESSION AA902889
 VERSION AA902889.1 GI:3038012
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 46)
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 Unpublished (1997)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 1180 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.

FEATURES

source
1. .46
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1501686"
/clone_lib="NCI_CGAP_Kid3"
/lab_host="DH10B"
/note="Organ: Kidney; Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer, double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."
11 a 19 c 13 g 3 t

BASE COUNT

ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 46;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 310 cagcgccgagag 322
|||||
Db 31 CAGCGCGGAGAG 43

RESULT '43

AI026096
LOCUS
DEFINITION
Ov94h09.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1645025
, similar to TR:Q62006 Q62006 OPA REPEAT ; contains element L1
repetitive element ;, mRNA sequence.
ACCESSION
AI026096
VERSION
AI026096.1 GI:3241709
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 46)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
AUTHORS
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE
Tumor Gene Index
JOURNAL
Unpublished (1997)
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 1791 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. .46
/organism="Homo sapiens"
/db_xref="taxon:9606"

FEATURES

source
1. .46
/organism="Homo sapiens"
/db_xref="taxon:9606"

/clone="IMAGE:1645025"
/clone_lib="Soares_testis_NHT"
/sex="male"

/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from Clontech Laboratories, Inc., and primed with a Not I - oligo(dT) primer [5', TGTTACCAATCTGAATGGAGCGGCCCAATTTTTTTTTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo."
7 a 6 c 18 g 15 t

BASE COUNT

ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 46;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 496 gtggctgggtatt 508
|||||
Db 10 GTGGCTGGGTATT 22

RESULT 44

AI264859
LOCUS
DEFINITION
qx66h12.x1 NCI_CGAP_Ov36 Homo sapiens cDNA clone IMAGE:2006375 3', similar to SW:NHPX_HUMAN P55769 NHP2/RS6 FAMILY PROTEIN YEL026W
HOMOLOG ;, mRNA sequence.
ACCESSION
AI264859
VERSION
AI264859.1 GI:3873062
KEYWORDS
EST.
SOURCE
human.
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 46)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
AUTHORS
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
TITLE
Tumor Gene Index
JOURNAL
Unpublished (1997)
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
CDNA Library Preparation: David B. Krizman, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 200 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 1.
Location/Qualifiers
1. .46
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2006375"
/clone_lib="NCI_CGAP_Ov36"
/sex="female"
/tissue_type="borderline ovarian carcinoma"
/dev_stage="adult"
/lab_host="DH10B"
/note="Organ: ovary; Vector: pAMP1; mRNA made from borderline ovarian carcinoma, cDNA made by oligo-dT priming. Directionally cloned. Size-selected on agarose gel, average insert size 500 bp. Primary library, non-amplified."

FEATURES

source

BASE COUNT 10 a 12 c 12 g 12 t
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 46;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1156 cctcaagatgcc 1168
Db 14 CCTCAAGATGCC 26

RESULT 45
AI439347/c
LOCUS AI439347 46 bp mRNA EST 30-MAR-1999
DEFINITION t154f06.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2134307 3',
similar to TR:Q13539 Q13539 MARINER TRANSPOSASE. ; , mRNA sequence.
ACCESSION AI439347
VERSION AI439347
KEYWORDS AI439347.1 GI:4303686
SOURCE EST.
human.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 46)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgaps-r@mail.nih.gov

Life Technologies catalog #: 11547-015
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1143 Std Error: 0.00
Seq primer: -40Up from Gibco
High quality sequence stop: 1.
Location/Qualifiers
1. .46

FEATURES
source
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2134307"
/clone_lib="NCI_CGAP_Lym12"
/tissue_type="lymphoma, follicular mixed small and large
cell"
/lab_host="DH10B"
/note="Organ: lymph node; Vector: pCMV-SPORT6; Site: 1;
SalI; Site 2: NotI; Cloned unidirectionally. primer:
Oligo dt. Average insert size 1.25 kb. Life Technologies
catalog #: 11547-015"
BASE COUNT 18 a 8 c 7 g 13 t
ORIGIN

Query Match 0.7%; Score 13; DB 10; Length 46;
Best Local Similarity 100.0%; Pred. No. 2.2e+05;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1258 agcttacacattt 1270
Db 29 AGCTTACACATT 17

Search completed: April 20, 2002, 00:25:44
Job time: 9048 sec